

Radio

# AMATEUR

Call Book Magazine

**\$1.25**

Foreign  
**\$1.35**



**SPRING, 1936**



# CORNELL-DUBILIER CONDENSERS

AVAILABLE AT THE NATION'S  
LEADING DISTRIBUTORS



## MILES AHEAD IN PERFORMANCE

**CORNELL-DUBILIER**  
C O R P O R A T I O N

4378 BRONX BOULEVARD  
NEW YORK

Write for Catalog 123. Special catalog  
for broadcast and industrial engineers  
sent on request.





—1921—

—1936—

# Chi-Rad's Budget Plan

*We sell all GOOD short wave receivers of every make on deferred payments  
if desired. Liberal terms. Large trade-ins*

NATIONAL HRO complete with tubes and coils tuning from 1.7 to 30 megacycles.....	\$167.70
NATIONAL TYPE 5897 Power Pack for the HRO receiver with type 80 rectifier tube.....	16.24
NATIONAL coil sets for the band from 1700 to 900 k.c.....	12.00
NATIONAL coil sets for the band from 900 to 550 k.c.....	12.00
RCA AR-60 receiver.....	495.00
NEW RME—69 receiver—\$118.80, with tubes \$123.80, and speaker.....	134.90
NEW HALLICRAFTER SX-9 \$89.50 with tubes; S-9 (less xtal).....	79.50
HALLICRAFTER S-7 receiver (all wave), complete with tubes.....	49.50
ACR-136 RCA all wave receiver, with speaker and beat osc.....	69.50
PATTERSON PR 16 (Express Prepaid).....	95.70

**TRADE IN YOUR OLD RECEIVER ON ONE OF THESE MODERN JOBS**

## TRANSFORMER BARGAIN

T-6878 Genuine Thordarson plate and filament transformer, 600 v. each side, 200 m.a.—2½ v. 10 a., 5 v. 3 amps., 7½ v. 3 amps..... **\$2.45**  
T-6877 Choke—Thordarson 15 H. 200 M.A. .... **\$1.95**

## TERNPLATE CHASSES

**Lowest Price Ever Advertised**

7x 9x2 ..... **\$ .35**    10x12x3 ..... **\$ .50**  
7x11x2 ..... **.40**    10x17x3 ..... **.70**  
7x13x2 ..... **.45**

Any size chassis made to your order. Electroalloy or ternplate. Orders filled same day.

## EIMAC TRANSMITTING TUBES

Type 150 T..... **\$24.50**  
Type 50 T..... **13.50**

## METAL CASED CONDENSERS

400 v. ¼, ½ and 1 mike, each..... **\$ .19**  
Double ½ and double 1 mikes..... **.29**

## BLACK CRYSTALLINE FINISH PANELS

To fit standard relay racks.

1¾x19 ..... **\$ .56**    8¾x19 ..... **\$ .95**  
3½x19 ..... **.61**    10½x19 ..... **1.12**  
5¼x19 ..... **.67**    12¼x19 ..... **1.32**  
7 x19 ..... **.70**

## RACKS FOR TRANSMITTERS

Height 4 ft. 1 inch

Standard width to fit 19" panel. Made of heavy gauge steel..... **\$2.95**

Chasses and panels to match  
Extra charge for packing for out of town shipment.

## POTTER 8 MIKE CONDENSERS

Electrolytic—lug type ..... **\$ .39**  
Double 8 mike..... **.69**

## MICA CONDENSERS

Polymet .001..... **5c—6 for 25c**  
Sprague .01 flat paper..... **5c—6 for 25c**

**Best Grade Copper Tubing ¼" in fifty foot rolls ..... \$1.50**

## TUBULAR CONDENSERS

400 v.

1 mike..... **\$ .29**  
½ mike..... **.10**  
¼ mike..... **.08**  
.01, .05, .1 ..... **.05**

These condensers are not to be confused with gyp lines. Guaranteed 100%.

**RCA 866 tubes NOW ONLY \$2.25 each**  
**RCA 852 tubes NOW ONLY \$16.40**

**UNITED ELECTRONIC 866 tubes \$2.25**

**TAYLOR 866 tubes \$1.65**

## A CHI-RAD SPECIAL

Western Electric amplifier cabinets suitable for transmitters, etc., 17½" high, 20¼" wide, 9½" deep, heavy steel deluxe satin black finish with snap clasp lock; have grills on three sides. SPECIAL, each for CASH only..... **\$2.00**

\$ .50 extra charge for packing if shipped out.

## SUPREME CONDENSERS

*Fully guaranteed—must satisfy you*

Mfds.	1000 v.	1500 v.	2000 v.
1	.49	.65	1.20
2	.89	1.49	1.95
4		2.95	3.85

*Quotations gladly furnished on any list of parts for transmitters or receivers. Get our prices.*

*All Prices Are Subject to Change Without Notice*

## CHICAGO RADIO APPARATUS COMPANY, Inc.

415 South Dearborn Street (near Van Buren), Dept. CB-334, Chicago

(Established 1921)

WE OPERATE W9RA AND W9PST

Phone Harrison 2276-7

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# RADIO AMATEUR CALL BOOK MAGAZINE

(Registered at U. S. Patent Office)

Vol. 17

March 1936

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## Editorial Staff

W9FO—ARTHUR C. BATES, Editor

W9OKZ—HAROLD A. RENSCH

## Cleveland Office

J. C. MUNN  
10515 Wilbur Av., Cleveland, Ohio

## Western Office

W6AM—DON C. WALLACE  
4214 Country Club Drive, Long Beach, Calif.

## Circulation Mgr.

D. A. SCHROEDER

## Business Mgr.

W9TRD—C. O. STIMPSON

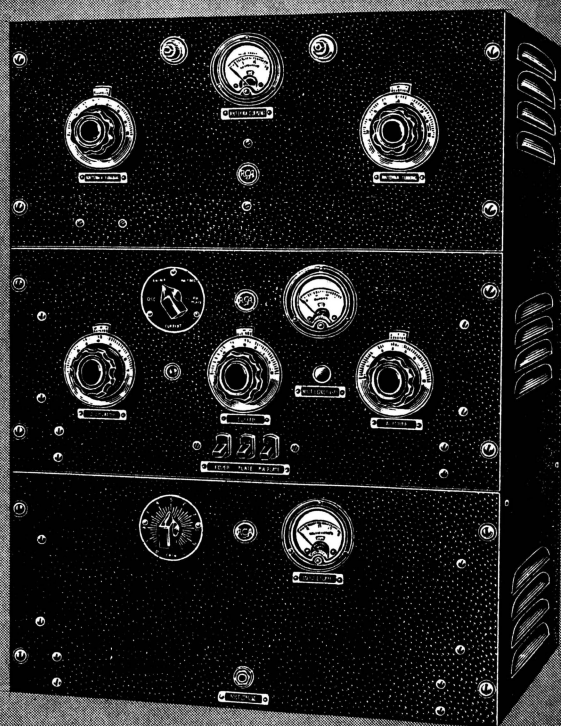
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*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*





## RCA TRANSMITTERS OFFER MORE WATTS PER DOLLAR

This new RCA 40-watt transmitter is conservatively rated, and has so few losses that it gives you more watts output per dollar and more refinements than other transmitters in its price class. It was designed by RCA transmitter engineers and is built under the supervision of skilled technicians. Each part is tested individually, as well as the completed assembly, to assure reliable as well as efficient operation. The transmitter consists



of four units which can be purchased together, or separately, as your ability to buy permits. This is the RCA unit plan, which also makes it possible for you to increase power at any later time without scrapping the original equipment. ACT-40 is rated at 40 watts output, c-w and phone, and is the outstanding buy in amateur transmitters of this rating. Net price f.o.b. factory, less accessories, \$235.00. Send for complete details.

**AMATEUR RADIO SECTION**  
**RCA MANUFACTURING COMPANY, INC.**

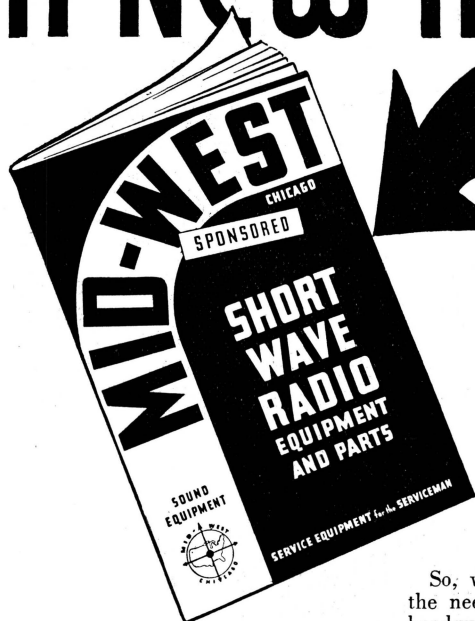
Camden, New Jersey • A Service of the Radio Corporation of America

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# A NEW KIND of CATALOG

## The "BLUE BOOK of AMATEUR RADIO"



*In building MID-WEST, we believe we have created a service to amateurs unique in the history of radio. We visioned a clearing house devoted solely to the acquirements and distribution of amateur radio apparatus of recognized quality. There were to be no side lines. No electrical appliances, no "specialties" calculated to snare an extra dollar of trade from the great body of organized amateurs throughout the world.*

### A PLEDGE

To be exactly truthful and painstakingly accurate in all representations. . . .

To be specialists in the true sense of the word—doing our chosen task of service just a little better than it has ever been done before. . . .

To be sincerely courteous and properly respectful in all our contacts with others. . . .

To be truly prompt in whatever service is requested of us. . . .

To temper each transaction with entire understanding and full appreciation of the interests of the both sides involved. . . .

To merit and hold over the years the friendship of those with whom we deal. . . .

To build strong in preference to big—seeking rugged permanence above temporary show. . . .

This is our pledge to those who favor us with their patronage. Squarely upon these standards of conduct rests the foundation of this business, its growth and the definite guarantees of satisfaction we give.

So, we built this institution squarely upon the need of amateurs for a single source—a headquarters, if you please—for their requirements in parts and equipment. A place where one could secure *every single item* required in the construction of a planned rig. No shopping about the country, picking up one product here, one item there with attendant loss of time and added expense. Exactly and entirely what was wanted, promptly—no substitutions—no furnishing of "something just as good."

That this purpose and action was and is sound is eloquently proven by the rapid growth of this business. From modest beginnings, season after season has produced amazing progress in custom. Today, the MID-WEST Store is the mecca for the thousands of amateurs in the Chicago area. Here they find the most complete stock of amateur radio parts in the district. Here they contact sympathetic able specialists—men who have grown up in the amateur field—active amateurs who are sincerely devoted to the aims and ideals of amateur radiodom! And through the medium of our catalogs and bulletins, we are extending this service throughout the land and to foreign countries.

In step with this progress, we have just now completed the most comprehensive, the most complete and largest mail-order catalog ever devoted to amateur radio apparatus. *Almost 100 pages* exclusively given to it, with an additional few pages of test equipment and a showing of sound amplifying apparatus for those hams who are engaged regularly or in spare time in the radio service field—a total of 116 pages!

We have also endeavored to make this catalogue unique and distinctive. Not alone is *every standard, recognized manufacturer's line* catalogued, but actually *every item* in each

line! Not just the "leading sellers." Not just the "popular values" in a given line of resistors, for example, but *every value made!* And, it is up to the minute. The season's new offerings are presented—every one available to the last moment—such as NATIONAL'S new 10 meter receiver, McMURDO SILVER'S new transmitters and receivers, etc.

We have with all our ability, experience and determined purpose, striven to make this actually and truly the "Blue Book of Amateur Radio"—the standard guide of purchase of radio apparatus. A dependable, thorough, accurate presentation of all the worthy products in this field. A guide to true values.

It is our desire that every radio amateur, the world over, have a copy of this new catalog. Your copy will be dispatched to you *free and without obligation* on your part, promptly on receipt of your request.

\* \* \*

### WE GUARANTEE

—that every item shown in our catalogue is exactly as described and illustrated... that every order presented to MID-WEST will be shipped promptly exactly as specified by the purchaser... that substitution of



parts or equipment will not be made under any condition, without the expressed permission of the customer. . . . Furthermore, that every transaction is made upon the basis of your unqualified satisfaction. . . . And, lastly, we will refund instantly and in full for any purchase that does not satisfy your in every particular.

LOUIS PONCHER—President.

NB—I will personally see to it, that every request for our new catalog is filled quickly.—L. P.

WRITE FOR YOUR "BLUE BOOK OF AMATEUR RADIO" NOW — FREE

# MID-WEST RADIO MART

520 SOUTH STATE STREET  
CHICAGO

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

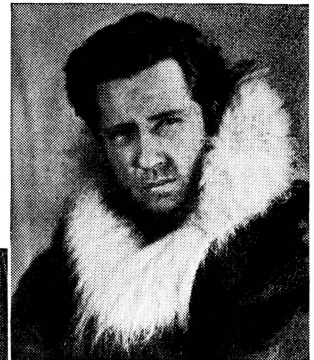




# Clay Bailey, Chief Radio Operator Second Byrd Antarctic Expedition, ... gives high praise to great performance of MASTERPIECE receivers at "bottom of world"!

● It is a well known fact that the Byrd Expedition selected four MASTERPIECE II receivers and took them to Little America. Now, the story of their really triumphant performance is told by Clay Bailey, Chief Radio Operator of the expedition.

For a receiver to perform satisfactorily under IDEAL conditions is ONE thing. But for a receiver to stand up and give brilliant, trouble-free performance under the MOST DIFFICULT CONDITIONS possible to imagine—with little



Above: Chief operator Bailey, in his furs at Little America.

Left: Chief Operator Bailey, with Waite, John Dyer and Guy Hutchinson at KZQ in Little America. Under Mr. Bailey's right arm is one of the Byrd Expedition's four MASTERPIECE II receivers.

Lower Left: Chief Operator Bailey's report of MASTERPIECE performance.

Mr. McMurdo Silver,  
3354 North Paulina Street,  
Chicago, Illinois.

Dear Mr. Silver:

As Chief Operator of the Second Byrd Antarctic Expedition I feel that a word of praise and thanks is due you and your Corporation in regard to the satisfactory performance of the four MASTERPIECE II receivers which were the official all-wave receivers of the Expedition, one of which remained on the "Bear of Oakland" and one on the "Jacob Rupert", providing the entire expedition with regular home entertainment as well as a choice selection of foreign programs during their 30,000 or so miles voyage to and from the bottom of the world.

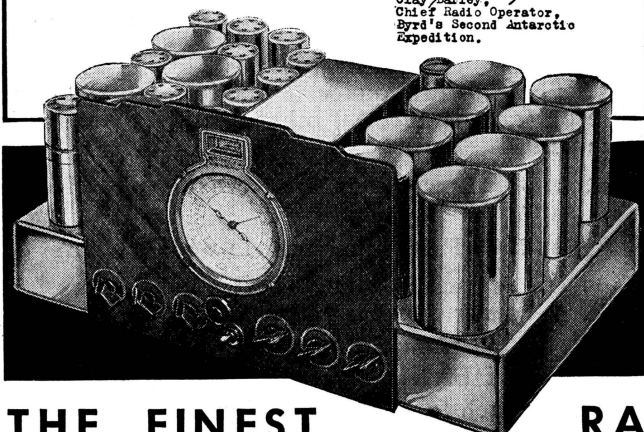
On the departure of our two vessels from the Bay of Whales for one long year, possibly two, contact with the outside world depended solely upon radio to that body of men who faced the cycle of Antarctic seasons. One can readily realize to what extent the broadcasts from home and the outside world contributed to the contentment and morale of the ice party. How comforting and consoling, snug in our little city, listening to the voices of our loved ones, thousands of miles away, as though separated only by a few feet.

The familiar clang of "Big Ben" from London, in addition to other choice programs from Europe, were regular morning features. From noon until early evening we were naturally more interested in broadcasts from home of which the volume and clarity was no question. For evening entertainment one's choice was of programs from South America, New Zealand, Australia, and Japan as well as other Asiatic countries.

The care and maintenance of these receivers was of little or no consequence. Little things like a few drops and rough handling by the transportation department and drifting snow on the trail between Little America and the ships are barely worth mentioning.

As these were the only all-wave broadcast receivers on the expedition I am sure the crews of both ships, while wintering in New Zealand, in addition to the ice party, join me in expressing appreciation to you and your Corporation for providing us with this means of world-wide broadcast entertainment.

Sincerely yours,  
*Clay Bailey*  
Clay Bailey,  
Chief Radio Operator,  
Byrd's Second Antarctic  
Expedition.



opportunity for service or repairs—is an achievement which we believe is unequalled by any other all-wave radio.

Mr. Bailey's letter is reproduced here, exactly as it came to us. Need we offer more convincing proof of MASTERPIECE quality of design and workmanship? ... or more significant assurance of what you may expect of the even greater MASTERPIECE IV of today? The coupon will bring you a free copy of the 32-page "Blue Book," with complete description of "the finest radio of all time," new low prices, easy payment plan, and 30-day home trial offer. Mail it today... there's no obligation.

HIGH-FIDELITY  
WORLD-WIDE  
ALL-WAVE

*Custom Built*  
**SILVER  
MASTERPIECE IV**

## LOW PRICES!

The new perfected MASTERPIECE IV is now offered at the lowest price in its history, under a positive guarantee of satisfaction or your money back.

## EASY TERMS!

New, liberal time-payment plan enables you to enjoy the thrilling performance of this superfine receiver NOW ... and pay for it out of income. Check and mail the coupon for details.

## 30-DAY TRIAL

Try the new MASTERPIECE IV in your own home or laboratory. If it fails to outperform any other receiver, at any price, return it to our laboratory undamaged and get your money back.

McMURDO SILVER CORPORATION, Div. G. P. H. Inc.  
3348 N. Paulina Street, Chicago, U. S. A.

☐ Send Free "Blue Book" giving complete specifications of MASTERPIECE IV with details of 30-DAY TRIAL.

☐ Send details of new Budget Plan of Easy Payments.

Name.....

Address.....

City..... State.....

3-RCB

THE FINEST

RADIO OF ALL TIME!

Tell 'Em You Saw It in the Radio Amateur Call Book Magazine



# PREFIXES—BY COUNTRIES

NA—North America  
SA—South America  
E—Europe

A—Asia  
AF—Africa  
O—Oceania

ABYSSINIA (Ethiopia) (AF).....ET  
AFGHANISTAN (A).....YA  
ALASKA (NA).....K7  
ALBANIA (E).....ZA  
ALGERIA (AF).....FA  
ANDORRA (E).....PX  
ANGOLA (AF).....CR6  
ANTIGUA (NA).....VP2  
ARGENTINA (SA).....LU  
ASCENSION (AF).....ZD8  
AUSTRALIA (O).....VK  
AUSTRIA (E).....OE  
AZORES (AF).....CT2  
BAHAMAS (NA).....VP7  
BAHREIN ISLAND (A).....VS8  
BARBADOS (NA).....VP6  
BELGIAN CONGO (AF).....ON  
BELGIUM (E).....ON  
BERMUDA (NA).....VP9  
BOLIVIA (SA).....CP  
BRAZIL (SA).....PY  
BRITISH GUIANA (SA).....VP3  
BRITISH HONDURAS (NA).....VP1  
BR. SOLOMON ISLANDS (O).....VR4  
BRITISH SOMALILAND (AF).....VQ6  
BULGARIA (E).....LZ  
CAMEROONS (British) (AF).....ZD2  
CAMEROONS (French) (AF).....FE8  
CANADA (NA).....VE  
CANAL ZONE (NA).....K5, NY  
CAPE VERDE (AF).....CR4  
CAYMAN ISLANDS (NA).....VP5  
CEYLON (A).....VS7  
CHILE (SA).....CE  
CHINA (A).....XU  
CHRISTMAS ISLAND (O).....ZC3  
COCOS ISLANDS (O).....ZC2  
COLOMBIAN REPUBLIC (SA).....HJ, HK  
COOK ISLANDS (O).....ZK1  
COSTA RICA (NA).....TI  
CUBA (NA).....CM, CO  
CURACAO (SA).....PJ  
CYPRUS (E).....ZC4  
CZECHOSLOVAKIA (E).....OK  
DANZIG (E).....YM  
DENMARK (E).....OZ  
DOMINICAN REPUBLIC (NA).....HI  
DUTCH E. IND. (see Neth. Ind.).....HC  
ECUADOR (SA).....SU  
EGYPT (AF).....SU  
ELLICE ISLANDS (see Gilbert).....ES  
ESTONIA (E).....ES  
ETHIOPIA (see Abyssinia).....ET  
FALKLAND ISLANDS (SA).....VP8  
FANNING ISLAND (O).....VQ1 (\*VR3)  
FAROE ISLANDS (E).....OY  
FIJI ISLANDS (O).....VR2  
FINLAND (E).....OH  
FRANCE (E).....F3, F8

FR. EQUATORIAL AFRICA.....FQ8  
FRENCH GUIANA (SA).....FY8  
FRENCH INDIA (A).....FN8  
FRENCH INDO-CHINA (A).....FI8  
FRENCH WEST AFRICA.....FF8  
GAMBIA (AF).....ZD3  
GERMANY (E).....D4  
GIBRALTAR (E).....ZB2  
GILBERT & ELLICE IDS. (O).....VR1  
GREAT BRITAIN (E).....G  
GREECE (E).....SV  
GREENLAND (NA).....OX  
GUADELOUPE (NA).....FG8  
GUAM (O).....K6, OM  
GUATEMALA (NA).....TG  
HAWAII (O).....K6  
HAITI (NA).....HH  
HEDJAZ (A).....HZ  
HONG KONG (A).....VS6  
HONDURAS (NA).....HR  
HUNGARY (E).....HA  
ICELAND (E).....TF  
INDIA (A).....VU  
IRAN (ex-Persia) (A).....EP, EQ  
IRAQ (A).....YI  
IRISH FREE STATE (E).....EI  
ITALY (E).....I  
JAMAICA (NA).....VP5  
JAPAN (A).....J  
JUGOSLAVIA (E).....YT, YU  
KENYA (AF).....VQ4  
LATVIA (E).....YL  
LIBERIA (AF).....EL  
LITHUANIA (E).....LY  
LUXEMBOURG (E).....LX  
MACAO (A).....CR9  
MADAGASCAR (AF).....FB8  
MADEIRA (AF).....CT3  
MALAYA (A).....VS1, VS2, VS3  
MALDIVES ISLANDS (A).....VS9  
MALTA (E).....ZB1  
MANCHUKUO (A).....MX  
MARTINIQUE (NA).....FM8  
MAURITIUS (A).....VQ8  
MEXICO (NA) (after 1 Jan. 1936).....XE  
MIDWAY ISLAND (O).....K6  
MOROCCO (AF).....CN  
MOZAMBIQUE (AF).....CR7  
NETHERLANDS (E).....PA, P1  
NEW CALEDONIA (O).....F7 (\*\*FK8)  
NEWFOUNDLAND (NA).....VO  
NEW HEBRIDES (O).....YJ (\*\*FU8)  
NEW ZEALAND (O).....ZL  
NICARAGUA (NA).....YN  
NIGERIA (AF).....ZD2  
NIUE (O).....ZK2  
NORTH BORNEO (O).....VS4  
NORTHERN IRELAND (E).....GI  
NORTHERN RHODESIA (AF).....VQ2  
NORWAY (E).....LA

NYASALAND (AF).....ZD6  
OCEAN ISLAND (see Gilbert).....ZC6  
PALESTINE (A).....HP  
PANAMA (NA).....ZP  
PARAGUAY (SA).....ZP  
PERSIA (see Iran).....ZP  
PERU (SA).....OA  
PHILIPPINES (O).....KA  
PITCAIRN ISLAND (O).....VR6  
POLAND (E).....SP  
PORTO RICO (NA).....K4  
PORTUGAL (E).....CT1  
REUNION (AF).....FB8 (\*\*FR8)  
ROUMANIA (E).....YR  
SAINT HELENA (A).....VQ8 (\*ZD7)  
ST. KITTS-NEVIS (NA).....VP2  
ST. PIERRE & MIQUELON (NA).....FP8  
SALVADOR (NA).....YS  
SAMOA (O) (U.S.).....K6  
SARAWAK (O).....VS5  
SEYCHELLES (AF).....VQ9  
SIAM (A).....HS  
SIBERIA (see U.S.S.R.).....ZD1  
SIERRA LEONE (AF).....ZD1  
SOMALI COAST.....FL8  
SOUTH AFRICA.....ZS, ZT, ZU  
SOUTH GEORGIA (SA).....VP8  
SOUTHERN RHODESIA (AF).....ZE1  
SPAIN (E).....EA  
STRAITS SETT. (see Malaya).....ST  
SUDAN (AF).....ST  
SURINAM (SA).....PZ  
SWEDEN (E).....SM  
SWITZERLAND (E).....HB  
SYRIA (A).....AR  
TAHITI (O).....F3 (\*\*FO8)  
TANGANYIKA (AF).....VQ3  
TIBET (A).....AC4  
TOGOLAND (British) (AF).....ZD4  
TOGOLAND (French) (AF).....FD8  
TONGA ISLANDS (O).....VR5  
TRANSJORDANIA (A).....ZC1  
TRINIDAD & TOBAGO (SA).....VP4  
TRISTAN DA CUNHA (AF).....ZU9  
TUNIS (AF).....FT4  
TURKEY (E&A).....TA  
UGANDA (AF).....VQ5  
UNITED STATES (NA).....W  
U. S. NAVAL COMMUNICATION  
RESERVE STATIONS (NA).....N  
URUGUAY (SA).....CX  
U.S.S.R. (E, A).....U, UE, UK, UX  
VENEZUELA (SA).....YV  
VIRGIN ISLANDS (NA).....K4  
WESTERN SAMOA (O) (British).....ZM  
ZANZIBAR (AF).....VP1

\*Suggested by the British Empire Radio Union.

\*\*Official, by French govt.

## U. S. Postal Rates on Cards and Letters

LETTERS 3c each ounce or fraction to United States, U. S. Possessions, Canada, Labrador and Newfoundland. 2c each ounce or fraction if for delivery in the town in U. S. where letter was mailed. AIRMAIL to U. S. and Canada: 6c each ounce or fraction.

LETTERS, 3c each ounce or fraction, CARDS 2c, to: Argentina, Balearic Islands, Bolivia, Brazil, Canary Islands, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras, Mexico, Morocco (Spanish), Nicaragua, Panama, Paraguay, Peru, Salvador, Spain and its Colonies, Uruguay, Venezuela.

Letters 3c each ounce or fraction to CANADA, LABRADOR, and NEWFOUNDLAND. Letters 5c each ounce or fraction to GREAT BRITAIN (Eng-

land, Scotland, Wales), NORTHERN IRELAND, and IRISH FREE STATE.

LETTERS 5c first ounce and 3c for each additional ounce or fraction to: All other countries not in the above lists.

Registration Fee—In addition to postage, 15 cents to all countries.

### POST CARDS (Government and Private)

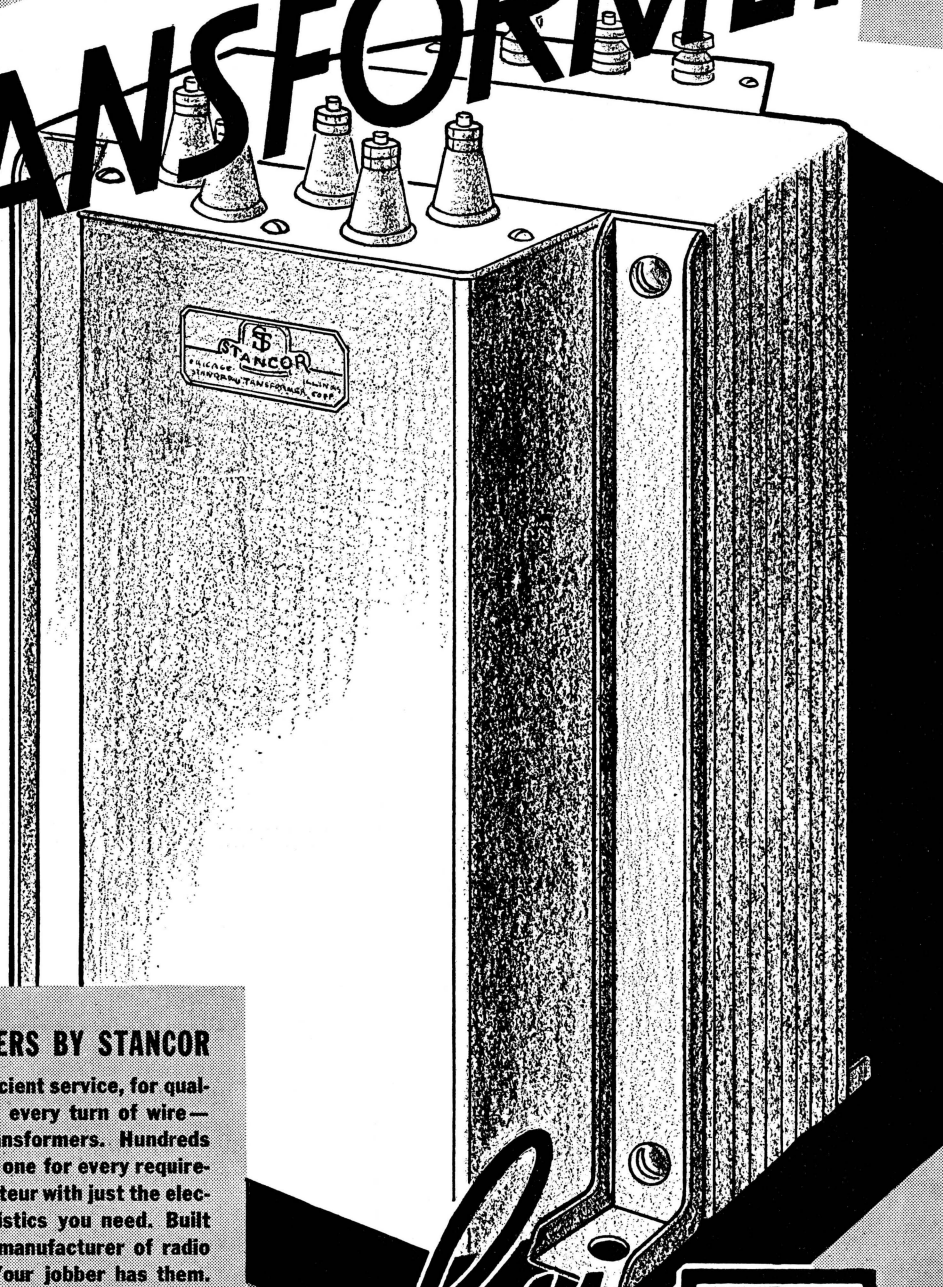
CARDS 1c each in United States and Possessions, and 2c to countries taking 3c letter rate.

Cards 2c each to CANADA, LABRADOR, and NEWFOUNDLAND.

Cards 3c each to all other foreign countries.



# TRANSFORMERS



## TRANSFORMERS BY STANCOR

For reliable, efficient service, for quality evidenced in every turn of wire — use Stancor Transformers. Hundreds to choose from, one for every requirement of the amateur with just the electrical characteristics you need. Built by the leading manufacturer of radio transformers. Your jobber has them.

**STANDARD  
TRANSFORMER CORP.**  
850 BLACKHAWK ST., CHICAGO, ILL.



*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# INTERNATIONAL PREFIXES

AC4	TIBET	J	JAPAN	VQ4	KENYA
AR	SYRIA	K4	PORTO RICO, VIRGIN ISLANDS	VQ5	UGANDA
CE	CHILE	K5	CANAL ZONE	VQ6	BRITISH SOMALILAND
CM	CUBA	K6	GUAM, HAWAII, MIDWAY	VQ8	MAURITIUS
CN	MOROCCO		ISLAND, SAMOA (U. S.),	VQ9	SEYCHELLES
CO	CUBA (fones)		WAKE ISLAND	VR1	GILBERT & ELLICE ISLANDS
CP	BOLIVIA	K7	ALASKA	VR2	FIJI ISLANDS
CR4	CAPE VERDE	KA	PHILIPPINE ISLANDS	VR3	FANNING ISLAND
CR5	PORTUGUESE GUINEA	LA	NORWAY	VR4	BR. SOLOMON ISLANDS
CR6	ANGOLA	LU	ARGENTINA	VR5	TONGA ISLANDS
CR7	MOZAMBIQUE	LX	LUXEMBOURG	VR6	PITCAIRN ISLAND
CR8	PORTUGUESE INDIA	LY	LITHUANIA	VS1, VS2, VS3	MALAYA
CR9	MACAO	LZ	BULGARIA	VS4	NORTH BORNEO
CR10	TIMOR	MX	MANCHUKUO	VS5	SARAWAK
CT1	PORTUGAL	N	U. S. NAVAL COMMUNICATION	VS6	HONG KONG
CT2	AZORES		RESERVE STATIONS	VS7	CEYLON
CT3	MADEIRA	NY	CANAL ZONE	VS8	BAHREIN ISLANDS
CX	URUGUAY	OA	PERU	VS9	MALDIVE ISLANDS
D4	GERMANY	OE	AUSTRIA	VU	INDIA
EA	SPAIN	OH	FINLAND	W	UNITED STATES
EI	IRISH FREE STATE	OK	CZECHOSLOVAKIA	XE (after 1 Jan. 1936)	MEXICO
EL	LIBERIA	OM	GUAM	XU	CHINA
EP, EQ	IRAN (ex-Persia)	ON	BELGIUM, BEL. CONGO	YA	AFGHANISTAN
ES	ESTONIA	OX	GREENLAND	YI	IRAQ
ET	ABYSSINIA (Ethiopia)	OY	FAROE ISLANDS	YJ (**FU8)	NEW HEBRIDES
F3	FRANCE	OZ	DENMARK	YL	LATVIA
F7	(**FK8) NEW CALEDONIA	PA	NETHERLANDS	YM	DANZIG
F8	FRANCE	PI	NETHERLANDS (schools)	YN	NICARAGUA
FA	ALGERIA	PJ	CURACAO	YR	ROUMANIA
FB8	MADAGASCAR, REUNION (**FR8)	PK	NETH. INDIES	YS	SALVADOR
FD8	TOGOLAND (French)	PX	ANDORRA	YT, YU	JUGOSLAVIA
FE8	CAMEROONS (French)	PY	BRAZIL	YV	VENEZUELA
FF8	FRENCH WEST AFRICA	PZ	SURINAM	ZA	ALBANIA
FG8	GUADELOUPE	SM	SWEDEN	ZB1	MALTA
FL8	FRENCH INDO-CHINA	SP	POLAND	ZB2	GIBRALTAR
FK8	NEW CALEDONIA	ST	SUDAN	ZC1	TRANSJORDANIA
FL8	SOMALI COAST	SU	EGYPT	ZC2	COCOS ISLANDS
FM8	MARTINIQUE	SV	GREECE	ZC3	CHRISTMAS ISLAND
FN8	FRENCH INDIA	TA	TURKEY	ZC4	CYPRUS
FO8	FRENCH OCEANIA, TAHITI	TF	ICELAND	ZC5	PALESTINE
FP8	ST. PIERRE & MIQUELON	TG	GUATEMALA	ZD1	SIERRA LEONE
FQ8	FR. EQUATORIAL AFRICA	TI	COSTA RICA	ZD2	NIGERIA, CAMEROONS (British)
FR8	REUNION	U, UE, UK, UX	U.S.S.R.	ZD3	GAMBIA
FT4	TUNIS	VE	CANADA	ZD4	GOLD COAST, TOGOLAND
FU8	NEW HEBRIDES	VK	AUSTRALIA		(British)
FY8	FRENCH GUIANA	VO	NEWFOUNDLAND	ZD6	NYASALAND
G	GREAT BRITAIN	VP1	BRITISH HONDURAS	ZD7	SAINT HELENA
GI (see G)	NORTHERN IRELAND	VP2	ANTIGUA, ST. KITTS-NEVIS	ZD8	ASCENSION
HA	HUNGARY	VP3	BRITISH GUIANA	ZE1	SOUTHERN RHODESIA
HB	SWITZERLAND	VP4	TRINIDAD & TOBAGO	ZK1	COOK ISLANDS
HC	ECUADOR	VP5	CAYMAN ISLANDS, JAMAICA,	ZK2	NIUE
HH	HAITI		TURKS & CAICOS ISLANDS	ZL	NEW ZEALAND
HI	DOMINICAN REPUBLIC	VP6	BARBADOS	ZM	WESTERN SAMOA
HJ, HK	COLOMBIAN REPUBLIC	VP7	BAHAMAS	ZP	PARAGUAY
HP	PANAMA	VP8	FALKLAND ISLANDS	ZS, ZT, ZU	SOUTH AFRICA
HR	HONDURAS		SOUTH GEORGIA	*ZU9	TRISTAN DA CUNHA
HS	SIAM	VP9	BERMUDA		
HZ	HEDJAZ	VQ1 (**VR3)	FANNING ISLAND		
I	ITALY	VQ2	NORTHERN RHODESIA		
		VQ3	TANGANYIKA		

\*Suggested by the British Empire Radio Union.

\*\*Official, by French govt.

LETTERS MAY BE OMITTED IN GIVING A COMPLETE REPORT, AS: "UR 368 HR." OR "FB 599."

## "Q" Readability System

QSA1—HARDLY PERCEPTIBLE; UNREADABLE.  
 QSA2—WEAK; READABLE ONLY NOW AND THEN.  
 QSA3—FAIRLY GOOD; READABLE WITH DIFFICULTY.  
 QSA4—GOOD READABLE SIGNALS.  
 QSA5—VERY GOOD SIGNALS; PERFECTLY READABLE.

## "R" Audibility System

R1—FAINT SIGNALS; JUST READABLE.  
 R2—WEAK SIGNALS; BARELY READABLE.  
 R3—WEAK SIGNALS; BUT CAN BE COPIED.  
 R4—FAIR SIGNALS; EASILY READABLE.  
 R5—MODERATELY STRONG SIGNALS.  
 R6—GOOD SIGNALS.

R7—GOOD STRONG SIGNALS, THAT COME THRU QRM & QRN.

R8—VERY STRONG SIGNALS; HEARD SEVERAL FEET FROM THE FONES.

R9—EXTREMELY STRONG SIGNALS.

## "T" Tone System

(ORIGINATED BY W8RY)

T1—"T3, R6,") VERY BAD 25 OR 60 CYCLE AC TONE.

T2—ROUGH 60 CY AC TONE.

T3—POOR RAC TONE. SOUNDS LIKE NO FILTER.

T4—FAIR RAC, SMALL FILTER.

T5—NEARLY DC TONE, GOOD FILTER, BUT HAS KEY THUMPS, OR BACK WAVE, ETC.

T6—NEARLY DC TONE. VERY GOOD FILTER; KEYING OK.

T7—PURE DC TONE, BUT HAS KEY THUMPS, BACK WAVE, ETC.

T8—PURE DC, NOT EQUAL TO T9.

T9—BEST STEADY, PURE CRYSTAL CONTROLLED DC TONE.



# A Tip FOR SMART HAMS



**A**RE you getting the dope on what's new in Amateur Radio? One way to get it is to read every radio magazine, keep in touch with every manufacturer, buy and try every piece of equipment made. Few busy men have the time or means to do that. Besides you don't have to—


**H**ERE'S an easier way—You have the latest edition of the ALLIED Catalog—we mailed it to you some time ago. Have you laid it aside with the idea of looking through it sometime—and forgotten to come back to it? If you have you're overlooking a bet—

**B**ECAUSE the ALLIED Catalog has the latest dope on everything in radio—tried and tested amateur short-wave rigs, new gadgets that improve communication, new refinements in parts now more effective than ever. And ALLIED has them all under one great roof, at the lowest prices—available to you quickly. And only ALLIED gives you Personal Amateur Service.

**T**AKE another look at your ALLIED Catalog. Find out what you've been missing. (P. S.—If you've lost or mislaid your copy, we'll rush another to you on request.)



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*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



# High Frequency Press and Weather

WE WISH TO REMIND ALL OPERATORS TO STRICTLY OBSERVE THE REGULATION REGARDING  
SECURITY OF ALL PRESS TRANSMISSIONS, IN ACCORDANCE WITH THE U. S. RADIO LAWS

W9FO will appreciate confirmation of schedules you are copying above 3000 KC (below 100 metres). These are for the benefit of ships at sea, and the majority of these schedules are interrupted by a three-minute "silent period" at the 15th and 45th minute of each hour. At these times all ship operators are standing-by on 500 KC (600m) for SOS calls of ships in distress.

Note that time given is GMT (Greenwich Mean Time). U. S. Eastern Standard Time PLUS FIVE HOURS = GMT. BB = Major League Baseball Scores. CQ = General call, to all stations. Px = Press News. SX = Stock market quotations. Tx = Time signals. If followed by a number, means only that number quoted. From New York Exchange unless otherwise stated.

Many thanks to operators of KUP, WFD, WHD, WRH, and others, for their help.

GMT	CALL	KC	METRES	LOCATION	TYPE OF TRANSMISSION
0000	FZS	11990	25.02	Saigon, Fr. Indo-China.	Px In English, Friday only. League of Nations "communiqué epidemiologique."
.....	LOL	8690	34.52	Darsena Norte, Argentina.	Px In Spanish. Also 285 kc (1053m).
.....	PPE	8720	34.4	Rio de Janeiro, Brazil.	Tx Until 0030.
.....	PPR	8310	36.1	Rio de Janeiro, Brazil.	Px In English & Portuguese.
.....	WFC	6785	44.22	New Orleans, La.	Px Until 0030, then Sx & markets, then more Px. Simultaneously with WFB on 90kc (3333m).
0030	FZS	11990	25.02	Saigon, Fr. Indo-China.	Px In French.
.....	RNZ	7330(?)		Petropavlovsk, U.S.S.R.	Wx New International Wx Code.
.....	RHE	11100(?)		Petropavlovsk, U.S.S.R.	Wx Simultaneously with RNZ.
0035	JRW	12920	23.22	Palao, Caroline Islands.	Wx In English.
0050	DIS	10150	29.557	Nauen, Germany	Px German & World, in German abrv. Daily except Sunday.
.....	DFH	7332	40.918	Nauen, Germany.	Simultaneously.
0057	PLO	11440	26.22	Malabar, Java, D. E. I.	Tx Until 0100. Also PLX on 19.23kc (15600m) except Sundays.
0100	SAB	8240	36.4	Goteborg, Sweden.	Px Swedish press, in Swedish, to SAX and all Swedish ships.
.....	WCX	7850	38.22	Hicksville, L. I., N. Y.	Px Daily except Sunday.
.....	WAFH	5355	56.07	Hicksville, L. I., N. Y.	Px Simultaneously with WCX.
.....	WRH	8360	35.89	Carlstadt, N. J.	Px BB of current date. SX10.
.....	RMGI	4200(?)		Khabarovsk, U.S.S.R.	Wx New International Wx Code.
.....	RGA	9000(?)		Khabarovsk, U.S.S.R.	Wx Simultaneously with RMGI.
0105	NSS	4525	66.298	Annapolis, Md.	Wx
.....	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 0120. Observations of 2300 GMT.
0130	NPG	8770	34.21	San Francisco, Calif.	Wx California coast. Also on 42.8kc (7009m) & 108kc (2778m).
0145	XU8ZW	12820	23.4	Shanghai, China.	Wx and storm signals.
0155	XDP	4797	62.54	Chapultepec, D. F., Mex.	Tx Until 0200.
.....	XDD	13040	23.01	Chapultepec, D. F., Mex.	Tx Simultaneously.
0200	LOL	8690	34.52	Darsena Norte, Argentina	Tx Also on 285kc (1053m).
0245	NIDF	12615	23.78	U.S.S. Augusta.	Wx Plain language.
0253	FRK2	8570	35	Phu-Lien, Fr. Indo-China.	Tx Until 0300. Simultaneously with FRK on 500kc (600m).
0255	NAA	9050	33.15	Arlington, Va., U.S.A.	Tx Until 0300. Simultaneously with 113kc (2653m), also NAL fone on 690kc (435m).
.....	NPG	12885	23.28	San Francisco, Calif.	Tx Until 0300. Simultaneously on 42.8kc (7009m), & 108kc (2778m).
.....	NPM	16180	18.54	Pearl Harbor, T. H.	Tx Until 0300.
0300	KUP	6440	46.58	San Francisco, Calif.	Px CQ—World. Daily except Sundays and holidays.
.....	NAA	9050	33.15	Arlington, Va.	Wx Marine weather. Simultaneously on 64kc (4687.5m), 113kc (2653m).
.....	NPG	12885	23.28	San Francisco, Calif.	Wx Hydrographic. Pacific. Simultaneously with 42.8kc (7009m) & 108kc (2778m).
.....	NSS	4525	66.298	Annapolis, Md.	Wx Simultaneously with NAA.
.....	XDP	4797	62.54	Chapultepec, D. F., Mex.	Wx In Spanish.
.....	XDD	13040	23.01	Chapultepec, D. F., Mex.	Wx Simultaneously.
.....	ZSV	8220	36.5	Walvis Bay, S. Africa.	Px Confirmation requested.
.....	RKL	10723	27.98	Khabarovsk, U. S. S. R.	Px In English. Confirmation requested.
0330	VAS	8410	35.67	Louisburg, N. S., Canada.	Px Short paid press to Canadian Pacific. Also on 107kc (2804m).
0355	W9XAM	4797.5	62.53	Elgin, Ill.	Tx Until 0400.
0356	IRG	5450	55	Massua, Erythrea.	Tx Until 0400.
0400	KUP	6440	46.58	San Francisco, Calif.	Wx Repeat on NPG 0330 sked. Daily including holidays.
.....	NAA	4525	66.298	Arlington, Va.	Wx Coded weather broadcast to Europe.
0415	WSC	8430	35.59	Tuckerton, N. J.	Px R.C.A. subscription Px, BB and Sx. Simultaneously with WGG on 22.1kc (13575m).
.....	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 0430. Observation of 0300 GMT.
0418	WSL	5555	54	Sayville, L. I., N. Y.	Px Paid Px. Daily. Simultaneously with WMY on 32.6kc (9200m).
.....	WSL	11115	26.99	Sayville, L. I., N. Y.	
0420	KPH	8440	35.55	Bolinas, Calif.	Wx Pacific weather. Also on 126kc.
.....	KPH	12735	23.56	Bolinas, Calif.	Wx Simultaneously.
0425	NPO	8872	33.81	Cavite, P. I.	Tx Until 0430. Also 56kc (5357m).
.....	NPO	17744	16.9	Cavite, P. I.	Tx Simultaneously.
0430	NPO	8872	33.81	Cavite, P. I.	Wx Also on 56kc (5357m).
.....	NPO	17744	16.9	Cavite, P. I.	Wx Simultaneously.
.....	WFD	10460	28.68	New Orleans, La.	Wx Simultaneously with WFB on 90kc (3333m).
.....	WFC	6785	44.22	New Orleans, La.	Wx 6785kc in winter, 10460kc in summer.
0440	PLO	11440	26.22	Malabar, Java, D. E. I.	Px In Dutch. Simultaneously with PLA on 19.23kc (15600m). Confirmation requested.
0455	NAA	4525	66.298	Arlington, Va., U. S. A.	Tx Until 0500. Also on 64kc (4687.5m) & 113kc (2653m).
0500	NSS	4525	66.298	Annapolis, Md.	Wx Hydrographic. Ice reports (in season).

U.S. Amateurs are requested not to write the F.C.C. regarding unassigned calls. Call W9FO for new QRA's



# IT'S THE THE LEADING SHORT WAVE SUPER SKYRIDER RECEIVER



★ No wonder amateurs are buying more Hallicrafters' Communication Receivers than any other kind. They lead the field and the Super Sky Rider is the King of them all.

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- ★ Beat Oscillator with continuous range.

- ★ More efficient Crystal Filter Circuit, controlled by variable knob on front of set gives one signal selectivity—without reducing sensitivity.
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- ★ Compact—all completely enclosed in one convenient and efficient cabinet 19½" x 10" x 10".

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GMT	CALL	KC	METRES	LOCATION	TYPE OF TRANSMISSION
.....	VAI	8330	36.01	Vancouver, B. C.	Px Simultaneously on 118kc (2542m).
0530	XPI	6520	46.10	Pratas Id., China.	Wx Asiatic coast weather, typhoons, etc.
.....	KUP	6440	46.58	San Francisco, Calif.	Px For U. S. Navy & outposts. Speed 30 to 48 w.p.m.
0548	WHD	8360	35.89	New York City.	Sx Until 0600. (0448-0500 during summer time period.)
0600	WHD	8360	35.89	New York City.	Px CQ—General. New York Times. (0500 during summer time period.)
.....	KFS	8370	36.2	Palo Alto, Calif.	Px CQ—General. KFS, KEK, KOK, traffic list. Simultaneously with 97.5kc (3075m).
0630	RNZ	7330(?)		Petropavlovsk, U.S.S.R.	Wx New International Wx Code.
.....	RHE	11100(?)		Petropavlovsk, U.S.S.R.	Wx Simultaneously with RNZ.
0700	SAB	8240	36.4	Karlsborg, Sweden.	Px In Swedish, for Swedish ships.
.....	RMGI	4200(?)		Khabarovsk, U.S.S.R.	Wx New International Wx Code.
.....	RGH	9000(?)		Khabarovsk, U.S.S.R.	Wx Simultaneously with RMGI.
0740	XPN	6250	48	Kamen, China.	Wx
.....	XPZ	6250	48	East Saddle, China.	Wx
0755	NAA	9050	33.15	Arlington, Va., U.S.A.	Tx Until 0800. Also on 113kc (2653m).
.....	NPG	8590	34.92	San Francisco, Calif.	Tx Until 0800. Also on 42.8kc (7009m) & 108kc (2778m).
.....	NPM	8090	37.08	Pearl Harbor, T. H.	Tx Until 0800.
.....	NSS	4015	74.72	Annapolis, Md.	Tx Until 0800.
.....	NSS	8030	37.34	Annapolis, Md.	Tx Simultaneously.
0756	FYB	10581	28.35	Paris-Pontoise, France.	Tx Until 0800.
0800	KUH	8345	35.95	Manila, P. I.	Px Sx50. United Press news, sports, etc.
.....	KUH	11110	27	Manila, P. I.	Px Simultaneously.
.....	NPG	8590	34.92	San Francisco, Calif.	Wx & Hydrographic. Also on 42.8kc (7009m) & 108kc (2778m)
0810	KPH	8440	35.55	Bolinas, Calif.	Px Paid. R.C.A./United Press Sx & Px. Also on 126kc.
0815	FGL	6976.7	43	Araouan, Fr. W. Africa.	Wx
.....	FGP	5769.2	52	Agades, Fr. W. Africa.	Wx
.....	FGP	6976.7	43	Agades, Fr. W. Africa.	Wx
.....	ZSD	8333	36	Jacobs, Natal, S. Africa.	Wx Daily. Also on 143kc (2100m).
0820	FGQ	10344.8	29	Bilma, Fr. W. Africa.	Wx
.....	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 0830. Observations of 0700 GMT.
0845	FVA	9677	31	Alger, Algeria.	Px In French.
.....	FGE1	9375	32	Abidjan, Fr. W. Africa.	Wx
.....	FGH	5769.2	52	Atar, Fr. W. Africa.	Wx
0900	KUP	6440	46.58	San Francisco, Calif.	Px CQ—General. Daily except Sundays and holidays.
.....	FGF	8333.3	36	Cotonou, Fr. W. Africa.	Wx
.....	FGF	13043.4	23	Cotonou, Fr. W. Africa.	Wx
.....	LCI	5905	50.8	Jeloy, Norway.	Px CQ—In Norwegian.
.....	LCJ	9980	30.06	Jeloy, Norway	Px Simultaneously with LCI.
0920	FGC	8108.1	37	Conakry, Fr. W. Africa.	Wx
0945	FFZ1	10526	28.5	Koukaza, China.	Wx
0950	FGJ1	9375	32	Bamako, Fr. W. Africa.	Wx
1000	IAC	12795	23.45	Coltano, Italy.	Px In Italian.
.....	IAC	6650	45.11	Coltano, Italy.	Px Simultaneously.
1010	GIC	13555	22.132	Rugby, England	Wx Meteorological report. Daily. Simultaneously with GBR on 16kc (18750m).
1030	FRK3	7936	37.8	Phu-Lien, Fr. Indo-China.	Wx Until 1050. Observations of 0900 GMT.
1130	FFZ1	10526	28.5	Koukaza, China.	Wx
.....	XPI	6520	46.10	Pratas Id., China.	Wx Asiatic coast weather, typhoons, etc.
1145	LSF	19600	15.306	Monte Grande, Argentina.	Tx Until 1150.
1155	DAN	11340	26.46	Norddeich, Germany.	Tx Until 1200.
1200	GIC	19640	15.275	Rugby, England	Px CQ—Foreign office press. Daily except Sundays. Simultaneously with GBR on 16kc (18750m).
.....	WCX	7850	38.22		
.....	WAFH	5355	56.07	Hicksville, L. I., N. Y.	Px Daily except Sunday.
1230	RNZ	7330(?)		Petropavlovsk, U.S.S.R.	Wx New International Wx Code.
.....	RHE	11100(?)		Petropavlovsk, U.S.S.R.	Wx Simultaneously with RNZ.
1255	NPO	9050	33.15	Cavite, P. I.	Tx Followed by Wx Hydrographic. Simultaneously on 22.9kc (13100m).
1300	KTK	6400	46.88	Mussel Rock, Calif.	Px Sx50. United Press news, sports, etc.
.....	KTK	8680	34.56	Mussel Rock, Calif.	Px Simultaneously.
.....	FZO	15625	19.2	Hanoi, Fr. Indo-China.	Wx Asiatic coast.
.....	RMGI	4200(?)		Khabarovsk, U.S.S.R.	Wx New International Wx Code.
.....	RGH	9000(?)		Khabarovsk, U.S.S.R.	Wx Simultaneously with RMGI.
1330	WFD	10460	28.68	New Orleans, La.	Px Paid press to KUFC. Repeat on previous day's ball scores. Simultaneously with WFB on 90kc (3333m).
.....	NPG	8770	34.21	San Francisco, Calif.	Wx Aviation weather. Simultaneously on 42.8kc (7009m) & 108kc (2778m).
.....	DIS	10150	29.557	Nauen, Germany.	Px In French.
.....	DIH	17(?)		Nauen, Germany.	Px Simultaneously with DIS.
1350	NAA	4015	74.72	Arlington, Va.	Wx Aviation weather and upper air reports.
.....	NAA	8870	33.82	Arlington, Va., U.S.A.	Wx Simultaneously.
.....	NSS	13575	22.10	Annapolis, Md.	Wx Simultaneously.
1355	W9XAM	4797.5	62.53	Elgin, Ill.	Tx Until 1400.
1400	LOL	8690	34.52	Darsena Norte, Argentina.	Tx Also on 285kc (1053m).
.....	XGX	.....	34.8	Shanghai, China.	Px CQ—Robt. Dollar SS. Co.
1455	NAA	8870	33.82	Arlington, Va., U. S. A.	Tx
1500	CLA	9677	31	Habana, Cuba.	Px CQ—Cuban press in Spanish and occasional English, for 15 minutes. Simultaneously with 333kc (900m).
.....	FZG	10826	27.71	Saigon, Fr. Indo-China.	Px In French. Daily.



Oil-filled transmitting condensers in round and rectangular containers.

Mica condensers in greatest variety . . . metal cased and bakelite molded units.

Metal-cased paper condensers . . . uncased paper sections . . . inexpensive tubulars.

Electrolytics . . . metal-can type, cardboard case type, tubulars.

Pyrohm Jr. Resistors . . . compact, inexpensive wire-wound vitreous-enameled units.

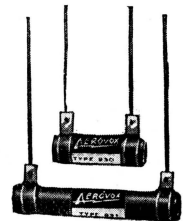
Slideohms . . . Adjustable wire-wound vitreous-enameled resistors.

## Behind that Microphone . . . AEROVOX COMPONENTS

FROM tiny mica condensers in crystal oscillator circuits to banks of oil-filled units for filtering, AEROVOX keeps many transmitters on the air year after year. ● Likewise p. a. systems and sound movie equipments, particularly in remote spots where failures simply won't be tolerated. ● That builders and users of such equipment favor AEROVOX condensers and resistors is no longer mere coincidence. ● Your local AEROVOX supplier can tell you more about such service even in your own territory.



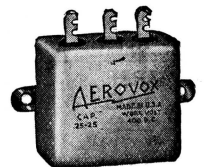
**Send for DATA:** New 1936 catalog with more pages and greater variety than ever before, now available. Copy on request, together with sample of monthly Research Worker. Meanwhile, see that local AEROVOX supplier.



Pyrohm Jr. wire-wound vitreous-enameled resistors



Metal-Can electrolytics



Metal-case paper condensers



Uncased paper condensers



# AEROVOX CORPORATION

70 WASHINGTON STREET, BROOKLYN, N. Y.

Sales Offices in All Principal Cities



*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



GMT	CALL NAA	KC 8870	METRES 33.82	LOCATION Arlington, Va.	TYPE OF TRANSMISSION
.....	NSS	13575	22.1	Annapolis, Md.	Wx Marine weather, Atlantic. Simultaneously on 64kc(4687.5m), 113(2653).
.....	XDP	4797	62.54	Chapultepec, D. F., Mex.	Wx Simultaneously with NAA.
.....	XDD	13040	23.01	Chapultepec, D. F., Mex.	Wx Simultaneously.
1530	NPG	8770	34.21	San Francisco, Calif.	Wx Marine weather and hydrographic. Also on 42.8 (7009m) & 108kc (2778m).
1555	W9XAM	4797.5	62.53	Elgin, Ill.	Tx Until 1600.
1600	NAA	13575	22.1	Arlington, Va.	Wx Coded weather broadcast to Europe.
.....	RKD	10657	28.15	Moscow, U. S. S. R.	Px In English. Confirmation requested.
.....	WCX	7850	38.22	Hicksville, L. I., N. Y.	Px Daily except Sunday.
.....	WPU	14635	20.51	Hicksville, L. I., N. Y.	Px Simultaneously with WCX.
1630	WFD	10460	28.68	New Orleans, La.	Wx Caribbean & Gulf of Mexico, followed by coded Sx. Also WFB on 90kc (3333m).
1655	NAA	See remarks		Arlington, Va., U.S.A.	Tx Until 1700. Also on 64kc (4687.5m), 113kc (2653m), 8410kc (35.65m), 12615kc (23.78m), 16820kc (17.8m) and on NAL fone 690kc (435m).
.....	NPG	12885	23.28	San Francisco, Calif.	Tx Until 1700. Simultaneously on 42.8kc (7009m) & 108kc (2778m).
.....	NPM	8090	37.08	Pearl Harbor, T. H.	Tx Until 1700.
.....	NSS	12045	24.91	Annapolis, Md.	Tx Most effective frequency used, depending upon season.
.....	NSS	16060	18.68	Annapolis, Md.	
1700	KUH	5555	54	Manila, P. I.	Px Sx50. United Press news, sports, etc.
.....	KUH	8345	35.95	Manila, P. I.	Px Simultaneously.
.....	NPG	12885	23.28	San Francisco, Calif.	Wx Hydrographic. Also on 42.8kc (7009m) & 108kc (2778m).
.....	NSS	9050	33.15	Annapolis, Md.	Wx Hydrographic. Ice reports (in season). Also NAA on 113kc (2653 m).
1755	W9XAM	4797.5	62.53	Elgin, Ill.	Tx Until 1800.
.....	XDP	4797	62.54	Chapultepec, D. F., Mex.	Tx Until 1800.
.....	XDD	13040	23.01	Chapultepec, D. F., Mex.	Tx Simultaneously.
1756	IRG	5450	55	Massua, Erythrea.	Tx Until 1800.
1800	LVA	10130	29.6	Guatemala City.	Tx
1900	DIS	10150	29.557	Nauen, Germany.	Px English copyright from Germany, on East-West directional antenna. Daily except Sundays.
.....	FZR	9620	31.19	Saigon, Fr. Indo-China.	Tx Until 1905.
1930	CUC	9419	31.85	Lisbon, Portugal.	Px In Portuguese. Each word twice. Automatic.
1955	W9XAM	4795.5	62.53	Elgin, Ill.	Tx Until 2000.
1956	FYB	10581	28.35	Paris-Pontoise, France.	Tx Until 2000.
2000	GIC	8640	34.72	Rugby, England	Px CQ—Foreign office press. Daily. Simultaneously with GBR on 16kc (18750m).
.....	CLA	9677	31	Habana, Cuba.	Px CQ—Cuban press in Spanish, and occasional English, for 15 minutes. Simultaneously with 333kc (900m).
.....	WHD	11355	26.42	New York City.	Px CQ—General. New York Times. (1900 during summer time period on 11355 kc. 8360 kc in winter.
.....	WHD	8360	35.89	New York City.	Sx
2030	DIS	10150	29.557	Nauen, Germany.	Px English copyright from Germany, on North-South antenna.
.....	DFH	7332	40.918	Nauen, Germany.	Px Daily. Simultaneously.
2055	GIC	8640	34.72	Rugby, England	Wx CQ—Meteorological report. Daily. Simultaneously with GBR on 16kc (18750m).
.....	NAA	9050	33.15	Arlington, Va., U.S.A.	Tx Until 2100. Also 113kc (2653m)
2100	WRH	8360	35.89	Carlstadt, N. J.	Px CQ—World wide.
.....	IAC	12795	23.45	Coltano, Italy.	Px In Italian.
.....	IAC	6650	45.11	Coltano, Italy.	Px Simultaneously.
.....	LCI	5905	50.8	Jeloy, Norway.	Px CQ—In Norwegian.
.....	LCJ	9980	30.06	Jeloy, Norway.	Px Simultaneously with LCI.
2148	GIC	8640	37.42	Rugby, England.	Px Paid Press in GLSQ. English and world-wide. Simultaneously with GBR on 16kc (18750m).
2150	DIS	10150	29.557	Nauen, Germany.	Px German press, in German, North-South antenna.
.....	DFH	7332	40.918	Nauen, Germany.	Px Simultaneously.
2200	WCX	7850	38.22	Hicksville, L. I., N. Y.	Px Daily.
2206	ISG	5450	55.05	Mogadiscio, It. Somaliland.	Tx At the following times: 2206, 2208, 2210.
2230	KTK	8680	34.56	Mussel Rock, Calif.	Px Sx50. United Press news, sports, etc.
.....	KTK	12495	24.01	Mussel Rock, Calif.	Px Simultaneously.
.....	KTK	16740	17.92	Mussel Rock, Calif.	Px Simultaneously.
.....	ZLW	5700	52.63	Wellington, New Zealand.	Px Daily except Sundays. Also on 375kc (800m).
.....	NAA	4525	66.298	Arlington Va., U. S. A.	Wx Cosmic data, November thru March.
.....	NSS	9050	33.15	Annapolis, Md.	Wx Simultaneously with NAA.
.....	NAA	9050	33.15	Arlington, Va., U. S. A.	Wx Cosmic data. April thru October.
2245	LSD	8830	33.97	Monte Grande, Argentina.	Px In Spanish. Runs to 2315, then ship traffic until time signals at 2345, followed by paid press.
2300	XPN	6250	48	Kamen, China.	Wx
.....	XPZ	6250	48	East Saddle, China.	Wx
2320	DIS	10105	29.557	Nauen, Germany.	Px German, sent in Spanish. North-South antenna.
.....	DFH	7332	40.918	Nauen, Germany.	Px Simultaneously.
2330	GIC	8640	34.72	Rugby, England	Px CQ—Foreign office press. Daily except Saturdays. Simultaneously with GBR on 16kc (18750m).
2345	LSD	8830	33.97	Monte Grande, Argentina.	Tx Until 2350.
2350	DIS	10150	29.557	Nauen, Germany.	Px In English, daily except Sunday.
.....	DFH	7332	40.918	Nauen, Germany.	Px Simultaneously.
2355	NAA	9050	33.15	Arlington, Va., U. S. A.	Tx Until 2400. Also on 113kc (2653m).
.....	DAN	11340	26.46	Norddeich, Germany.	Tx Until 2400.

U.S. Amateurs are requested not to write the F.C.C. regarding unassigned calls. Call W9FO for new QRA's



**B**ACK in 1927 the SPOKANE RADIO CO. was only a dream. . . . Later, that dream was realized in the very humble beginning of a business with a determination to render the best service possible in the serving of their trade. That was many years ago. . . .

**Today** SRC ranks as one of the largest and most progressive wholesale parts jobbers in the West. SRC Service has become a by-word among the Hams in this region. The reason is not hard to find.

- SERVICE, regardless of cost
- ALL ORDERS SHIPPED SAME DAY RECEIVED
- INTELLIGENT HANDLING OF ORDERS
- LARGE STOCKS OF LATEST MERCHANDISE

Route your next order to SPOKANE RADIO CO., and, if you live west of the Mississippi River ask for a copy of the SRC HAM NEWS. It's FREE.

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**SPOKANE RADIO CO., INC.**

**611 1<sup>ST</sup> AVE — SPOKANE WASH.**

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# Who's Who on the Short Waves

The following Abbreviations are used in this list and in the Commercial section: A. T. & T.—American Telephone & Telegraph Co., G. E. Co.—General Electric Co., M. R. T.—Mackay Radio & Telegraph Co., R. C. A.—Radio Corporation of America Communications Inc., R. M. C. A.—Radiomarine Corporation of America, T. R. T.—Tropical Radio Telegraph Co., U. S. C. G.—United States Coast Guard.

We desire to include all stations within the limits of this present list, and many additions will appear in the next issue.

## KC—Station

- 1596 WPGG—Police, Findlay, Ohio.  
 1666 WPHC—Police, Massillon, Ohio.  
 1674 KGPD—Police, San Francisco, Calif.  
 WPSB—Police, Harrisburg, Pa.  
 1706 KGPC—Police, St. Louis, Mo.  
 WKDU—Police, Cincinnati, Ohio.  
 1712 WPET—Police, Lexington, Ky.  
 KGPI—Police, Beaumont, Texas.  
 KGPI—Police, Los Angeles, Calif.  
 KVP—Police, Dallas, Texas.  
 WPDB, WPDC, WPDD—Police, Chicago, Ill.  
 WPEA—Police, Syracuse, N. Y.  
 WPEI—Police, E. Providence, R. I.  
 WPEJ—Police, Brookline, Mass.  
 WPGY—Police, Boston, Mass.  
 WQFL—Police, Oak Park, Ill.

**1715—(175 m.)—Limit of amateur band.**

**2000—(150 m.)—Limit of amateur band.**

- 2020 CGZ—Flin Flon Mine, Man., Canada.  
 VKM—Mornington Island, Australia.  
 2020 CGH—The Pas, Man., Canada.  
 2050 CGM—Montreal, P. Q., Canada.  
 CGY—Yamachiche, P. Q., Canada.  
 2050 VJI—Cloncurry, Qld., Australia.  
 2070 PRH—Bello Horizonte, Brazil.  
 2096 U. S. Naval Reserve, 4th Naval District.  
 2100 CGD—Drummondville, P. Q., Canada.  
 CGM—Montreal, P. Q., Canada.  
 CGY—Yamachiche, P. Q., Canada.  
 2125 YNL—All America Cables, Inc., Managua, Nicaragua.  
 2150 W6XS—Don Lee, Inc., 1076 W. 7 St., Los Angeles, Calif. (Television).  
 2190 PUB—Blumenau, S. Catharina, Brazil.  
 2210 YNL—All America Cables, Inc., Managua, Nicaragua.  
 PUE—Barra, Bahia, Brazil.  
 2290 VFH—Magnet Point, Ont., Canada.  
 VFJ—Homalko, B. C., Canada.  
 2302 CFN—Roberval, P. Q., Canada.  
 2326 WSDG—Aero. Radio Inc., Chicago, Ill.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 2344 WSDG—Aero. Radio Inc., Chicago, Ill.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 KSW—Police, Berkeley, Calif.  
 2414 WPDH—Police, Detroit, Mich.  
 WCK—Police, Detroit, Mich.  
 WMO—Police, Highland Park, Mich.  
 WRDR—Police, Grosse Pointe, Mich.  
 2416 KGPA—Police, Seattle, Wash.  
 WPGA—Police, Tulare, Calif.  
 2422 KGPE—Police, Kansas City, Mo.  
 KGPG—Police, Vallejo, Calif.  
 KGZC—Police, Topeka, Kans.  
 WMI—Police, Buffalo, N. Y.  
 WNEP—Police, Niagara Falls, N. Y.  
 WPDW—Police, Washington, D. C.  
 2430 KGPB—Police, Minneapolis, Minn.  
 WPDH—Police, Columbus, Ohio.  
 WPDG—Police, St. Paul, Minn.  
 WPEK—Police, New Orleans, La.  
 2440 WMDZ—Police, Indianapolis, Ind.  
 WPDH—Police, Louisville, Ky.  
 WPDF—Police, Flint, Mich.  
 WPDH—Police, Lansing, Mich.  
 WPEB—Police, Grand Rapids, Mich.  
 2442 KGPP—Police, Portland, Oreg.  
 WPDH—Police, Richmond, Ind.  
 WPEB—Police, Saginaw, Mich.  
 WPEG—Police, New York City.  
 2450 KGZF—Police, Chanute, Kans.  
 WPHF—Police, Richmond, Va.  
 2452 KGPB—Police, Oklahoma City, Okla.  
 WPDK—Police, Milwaukee, Wis.  
 WPDY—Police, Atlanta, Ga.  
 WRBH—Police, Cleveland, Ohio.  
 2458 WPDG—Police, Youngstown, Ohio.  
 2458 WPEA—Police, Syracuse, N. Y.  
 WPDG—Police, Akron, Ohio.  
 WPDV—Police, Charlotte, N. C.  
 2458 WPHD—Police, Steubenville, Ohio.  
 2474 WPDH—Police, Philadelphia, Pa.  
 2478 WPGT—Police, New Castle, Pa.  
 2490 KGZD—Police, San Diego, Calif.  
 2520 KNJB—Forestry Stn., Yellowstone Natl. Park, Wyo.  
 KNKP—ditto—Rocky Mt. Natl. Park, Colo.  
 2506 KGZE—Police, San Antonio, Texas.  
 2530 KOW—Pacific Tel. & Tel. Co., Seattle, Wash.  
 2530 WOX—St. George, S. I., N. Y.  
 2542 KLH—Pacific Tel. & Tel. Co., San Francisco, Calif.  
 2590 KOU—So. Calif. Tel. Co., Wilmington, Calif.

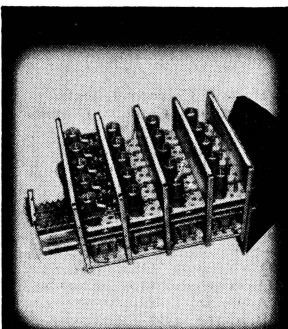
## KC—Station

- 2600 KNIA—Forestry Stn., Glacier Natl. Park, Mont.  
 2604 U. S. Naval Reserve, 9th Naval District.  
 2640 KNKS—Forestry Stn., Yosemite Natl. Park, Calif.  
 KNKU—same as KNKS.  
 KNKW—same as KNKS.  
 KNKY—Forestry Stn., Devil's Post Pile National Monument, Calif.  
 KNLO—Death Valley National Monument, Calif.  
 2670 NOC—U. S. C. G., Charleston, S. C.  
 NOR—U. S. C. G., San Diego, Calif.  
 2680 WSDL—Aero. Radio, Inc., Duluth, Minn.  
 2684 NOC—U. S. C. G., Charleston, S. C.  
 NOF—U. S. C. G., St. Petersburg, Fla.  
 NOM—U. S. C. G., Miami, Fla.  
 NOR—U. S. C. G., San Diego, Calif.  
 NOS—U. S. C. G., Salem, Mass.  
 NOV—U. S. C. G., Cape May, N. J.  
 NOW—U. S. C. G., Port Angeles, Wash.  
 NOX—U. S. C. G., Biloxi, Miss.  
 2688 U. S. C. G. See 2684.  
 2692 U. S. C. G. See 2684.  
 2698 NMC—U. S. C. G., Point Bonita, Calif.  
 NMG—U. S. C. G., Mobile, Ala.  
 NMN—U. S. C. G., Princess Anne, Va.  
 NMW—U. S. C. G., Grays Harbor, Wash.  
 NOF—U. S. C. G., St. Petersburg, Fla.  
 NOJ—U. S. C. G., Point Vicente, Calif.  
 NOL—U. S. C. G., Fort Lauderdale, Fla.  
 NOY—U. S. C. G., Galveston, Tex.  
 2704 U. S. C. G. See 2684.  
 2715 LVQ—Bahia Blanca, Bs. As., Argentina.  
 2716 U. S. Naval Reserve.  
 2725 GTSD—S.S. "Monarch of Bermuda," England.  
 2740 CFB—Provincial Air Base, Patricia, Ont., Canada.  
 CFG—Gold Pines, Ont., Canada.  
 CFI—Jackson Manion, Ont., Canada.  
 CFJ—Red Lake, Ont., Canada.  
 CFV—Goose Island, Ont., Canada.  
 2760 YNL—All America Cables, Inc., Managua, Nicaragua.  
 2800 LVR—Patagones, Argentina.  
 2820 PQA—Bocca do Acre, Brazil.  
 2830 LVP—La Plata, Argentina.  
 2840 YNL—All America Cables, Inc., Managua, Nicaragua.  
 2885 LMB—Bergen, Norway.  
 LMO—Oslo, Norway.  
 2906 LGTX—National Parks Airways, Pocatello, Idaho.  
 KGTY—ditto—Butte, Montana.  
 2910 PQI—Boa Vista do Rio Branco, Brazil.  
 2912 KNBK—Aeronautical Radio Inc., Brownsville, Tex.  
 KNBK—ditto—Dallas, Tex.  
 KNBK—ditto—Houston, Tex.  
 2920 PQJ—Benjamin Constant, Brazil.  
 2922 WEEA—Aeronautical Radio Inc., Atlanta, Ga.  
 WEEB—ditto—Logan Field, Baltimore, Md.  
 WEEC—ditto—Charleston, S. C.  
 WEEF—ditto—Spartanburg, S. C.  
 WEEG—ditto—Greensboro, N. C.  
 WEEJ—ditto—Jacksonville, Fla.  
 WEEW—ditto—Municipal Airport, Miami, Fla.  
 WEEN—ditto—near Linden, N. J.  
 WEEO—ditto—Orlando, Fla.  
 WEER—ditto—Byrd Flying Field, Richmond, Va.  
 2930 KIKL—Aeronautical Radio Inc., near Los Angeles, Calif.  
 2946 WLIC—Aeronautical Radio Inc., Atlantic City, N. J.  
 2960 WXP—U. S. Army, Fairbanks, Alaska.  
 2970 WXA—U. S. Army, Juneau, Alaska.  
 2980 WXE—U. S. Army, Anchorage, Alaska.  
 2986 same as 2922.  
 3000 POV—Bintang Island, D. E. I.  
 3004 POW—Soenggelgerong, Sumatra, D. E. I.  
 3005 Aero. Radio, Inc., Duluth, Minn.  
 3010 —U. S. Govt.  
 KJE—Boeing Air Transport, Reno, Nev.  
 KKO—do—Elko, Nev.  
 KMP—do—Omaha, Neb.  
 KMR—do—North Platte, Nebr.  
 KOE—do—Cheyenne, Wyo.  
 KOC—do—Rock Springs, Wyo.  
 KOD—do—Salt Lake City, Utah.  
 KOM—do—Des Moines, Iowa.  
 KOO—do—Iowa City, Iowa.  
 KRA—do—Cedar Rapids, Iowa.  
 KRF—do—Lincoln, Nebr.  
 KRU—do—Redding, Calif.  
 KZJ—Seattle, Wash.  
 WBO—do—Chicago, Ill.  
 3035 —U. S. Govt.

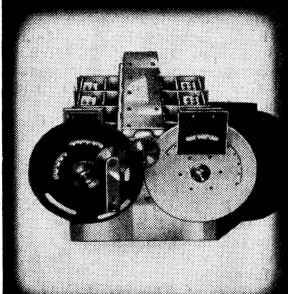
## KC—Station

- 3040 CFQ, CFR—Edmonton, Alta., Canada.  
 CKS—Calgary, Alta., Canada.  
 ZDX—St. Johns, Antigua, B. W. I.  
 3040 ZET—Kingston, Jamaica.  
 3046 VDC—Calgary, Alta., Canada.  
 3050 ZDZ—Belize, British Honduras.  
 3065 —U. S. Govt.  
 3070 WEEA—Aero. Radio Inc., Atlanta, Ga.  
 WEEC—ditto—Charleston, S. C.  
 WEEH—ditto—McCrae, Ga.  
 WEEJ—ditto—Jacksonville, Fla.  
 HIE—Santo Domingo, Dominican Rep.  
 3076 WEEA—Aero. Radio, Inc., Atlanta, Ga.  
 WEEC—ditto—Charleston, S. C.  
 WEEH—ditto—McCrae, Ga.  
 WEEJ—ditto—Jacksonville, Fla.  
 3080 PRSB—Bahia, Brazil.  
 PRSL—Belem, Para, Brazil.  
 PRSR—Rio de Janeiro, Brazil.  
 3082 WSDJ—Aero. Radio Inc., Ft. Wayne, Ind.  
 3088 WSDJ—Aero. Radio Inc., Ft. Wayne, Ind.  
 3095 —U. S. Govt.  
 3105 WRL—R. M. C. A., Duluth, Minn.  
 3106 —Itinerant aircraft frequency, U. S. A.  
 3120 NAX—U. S. Naval Radio Stn., Gatun, C.Z.  
 WRL—R. M. C. A., Duluth, Minn.  
 3127.5 WAES—Aeronautical Radio Inc., Syracuse, N. Y.  
 WAET—do—East Hartford, Conn.  
 3160 KNAS—Aero. Radio Inc., Kansas City, Mo.  
 KNAT—ditto—Dallas, Texas.  
 3166 KNAS—Aero Radio Inc., Kansas City, Mo.  
 KNAT—ditto—Dallas, Texas.  
 3172 KNAS—Aero. Radio Inc., Kansas City, Mo.  
 KNAT—ditto—Dallas, Texas.  
 3178 KNAS—Aero. Radio Inc., Kansas City, Mo.  
 KNAT—ditto—Dallas, Texas.  
 3185 PVB—Borba, Brazil.  
 3195 —U. S. Govt.  
 3196 CGJ—Isle Maligne, P. Q., Canada.  
 3196 CGO—Montreal, P. Q., Canada.  
 CGQ—Quebec, Canada.  
 CGS—St. Narcisse, P. Q., Canada.  
 CGT—Shawinigan Falls, P. Q., Canada.  
 3232.5 WAES—WAET—see 3485.  
 3235 —U. S. Govt.  
 3238 KGUU—Aero. Radio Inc., Little Rock, Ark.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 3242.5 WAES—WAET—see 3485.  
 3244 KGUU—Aero. Radio Inc., Little Rock, Ark.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 3256 W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City).  
 3257.5 WAES—WAET—see 3485.  
 3265 —U. S. Govt.  
 3280 VFZ—Camp Borden, Ont., Canada.  
 KIKF—R.C.A. Comm. Inc., Los Angeles, Calif.  
 WJT—R.C.A. Comm. Inc., San Juan, P.R. (See 3010—Boeing Air Transport).  
 3295 —U. S. Govt.  
 3310 YNL—All America Cables, Inc., Managua, Nicaragua.  
 3332 CFB—Provincial Air Base, Patricia, Ont., Canada.  
 CFG—Gold Pines, Ont., Canada.  
 CFI—Jackson Manion, Ont., Canada.  
 CFJ—Red Lake, Ont., Canada.  
 CFV—Goose Island, Ont., Canada.  
 CKT—Whitehorse, Yukon, Canada.  
 3345-3415 —U. S. Govt.  
 3370 WWAS—(govt. airmail)—Cincinnati, Ohio.  
 WWAT—(govt. airmail)—Birmingham, Ala.  
 3371 XGB—Shanghai, China.  
 XGO—Shanghai, China.  
 3380 WWAS—(govt. airmail)—Cincinnati, Ohio.  
 3385 WWAT—(govt. airmail)—Birmingham, Ala.  
 3410 VJI—Cloncurry, Qld., Australia.  
 3410 WWAQ—Huron Island Lighthouse, Mich.  
 3426 WIDC—Yacht "Abacena," Box 879, Jacksonville, Fla.  
 3445 —U. S. Govt.  
 3447.5 WAES—WAET—see 3485.  
 3452 WSDG—Aero. Radio Inc., Chicago, Ill.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 3457.5 WAES—WAET—see 3485.  
 3460 CFB—Provincial Air Base, Patricia, Ont., Canada.  
 CFG—Gold Pines, Ont., Canada.  
 CFI—Jackson Manion, Ont., Canada.  
 CFJ—Red Lake, Ont., Canada.  
 CFV—Goose Island, Ont., Canada.  
 3460 CGS—Calgary, Alta., Canada.

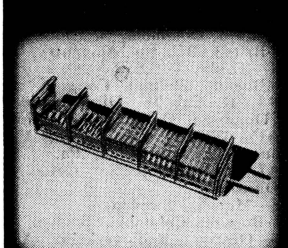
# Hammarlund "Super-Pro"



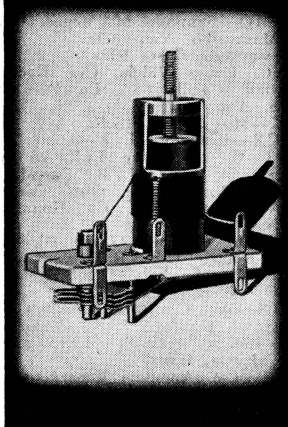
The new Hammarlund "Super Pro" receiver, a 16 tube super-heterodyne model, more than fulfills the exacting demands of the seasoned professional and amateur operator. It fairly bristles with distinctive features. The tuning unit (illustrated at left) is an engineering triumph of compactness and precision. It includes the main tuning and band spread condensers and their respective dial assemblies; the band changing switch, and all antenna coupling radio frequency and high frequency oscillator coil assemblies. There are only eight leads from this unique unit to the chassis assembly.



Another feature is the tuning dial arrangement, as illustrated at left. The main tuning dial is accurately calibrated in megacycles in ranges of 2.5 to 5; 5 to 10, and 10 to 20, and in kilocycles from 540 to 1160 and 1160 to 2500. This dial is equipped with an ingenious mechanical shutter which operates in conjunction with the band changing switch making visible only the frequency band in actual use. The high frequency ranges each have a two-to-one frequency range which places the three amateur hands at the same setting of the main tuning dial.



Another very important feature is the band-changing switch, also shown at left. This is an exclusive Hammarlund development and is a radical departure from switches commonly used for this purpose. Its design incorporates the well-known knife switch principle actuated by eccentric cams. Specially designed bakelite sections with silver plated phosphor bronze knife blades gradually slide into silver plated phosphor bronze spring clips forming a 6 point positive contact.



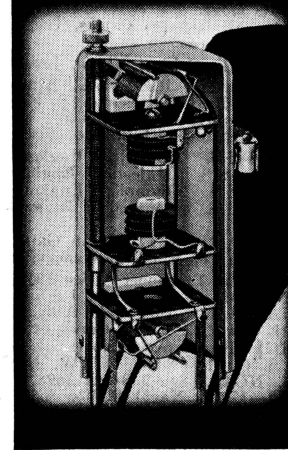
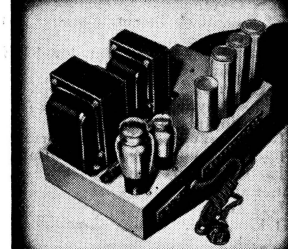
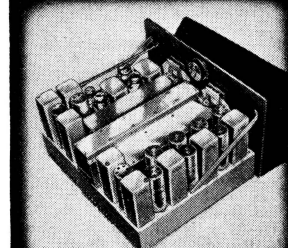
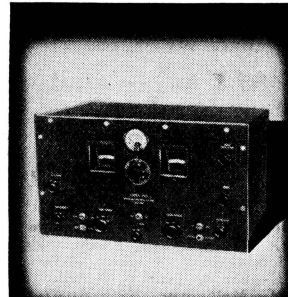
Unusual tuning coil assemblies formulate still another feature of the "Super Pro." Coils are wound on the highest grade bakelite available. The bases are all Isolantite. Each of the units have an inductance adjuster (cut-away view shown) which aligns the circuits at the low frequency end of the band. A variable trimming condenser is used to align the circuits at the high frequency end of the band. This makes it possible to obtain not only perfect alignment between the circuits but it also permits exact tracking of the calibrated dial. Each unit is individually inspected and tested before it goes into the unit as well as after its installation in the unit.

For the utmost in efficiency, the following precision controls have been incorporated: accurately calibrated tuning dial in kilocycles and megacycles; band spread tuning dial (both illuminated); five-band switch; audio frequency gain; radio frequency gain; intermediate frequency gain; selectivity; beat frequency; tone control; speaker-phone switch; send-receive switch; AVC-Manual switch, and CW-Modulation switch. The band-changing switch operates backward and forward and not only controls the tuning but also automatically connects in the proper band spread condensers.

Other features of the "Super Pro" are: electrostatically shielded input; two tuned R.F. stages on all bands; four air tuned I.F. transformers; continuously variable selectivity; three A.F. stages, etc. In the receiver chassis, illustrated, are two 6D6's in two tuned R.F. stages, a 6C6 H.F. oscillator electron coupled to 6A7 first detector, three 6D6's in three 465 kc. I.F. stages, a 6B7 combination fourth I.F. and diode second detector, a 6C6 I.F. beat oscillator, a 6B7 for, a AVC 76 as first A.F. tube, a 42 as a class "A" driver and two 42's as class "A" or "A Prime" push pull A.F. output.

The power supply, shown at right, is a separate compact unit. Here two rectifiers are used. A 5Z3 is used for the plate voltage and a 1-V for the grid voltage. This unit supplies individual C-bias and B voltage. Due to the special filtering system employed, positively humless output is available. This unit is connected to the receiver by way of a special 10-lead cable. The speaker field connections are also obtained from this unit. A special dust cover is also provided.

Variable transformers, cut-away view at right, constitute another of the many important features of the "Super Pro." These transformers permit continuous variation of the mutual inductance between the primary and the secondary throughout a wide range of values without otherwise affecting circuit constants. The approximate range of variation is from one-third critical coupling to over three times critical coupling. Any intermediate value is at the disposal of the operator at all times merely by turning a knob on the front panel. Both the primary and secondary are thoroughly impregnated three pie Litz windings mounted on Isolantite cores having the high "Q" of 130.



Write AC1 for further details

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- 3460 WSDG—Aero. Radio Inc., Chicago, Ill.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 3467.5 WAES—WAET—see 3485.  
 3468 WSDG—Aero. Radio Inc., Chicago, Ill.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 3475 U. S. Naval Reserve, NAA, NDA-NDZ,  
 NEC-NED, NEF-NEG, NEJ-NEK,  
 NIC-NID, NKF.  
 3480 VE9AZ—Maple Mount, Ont., Canada.  
 VE9BD—Long Lake, Ont.  
 VE9BF—Timagami, Ont.  
 VE9BG—Savant Lake, Ont.  
 3484 WSDG—Aero. Radio Inc., Chicago, Ill.  
 WSDH—ditto—Nashville, Tenn.  
 3485 WAES—Aeronautical Radio Inc., Syra-  
 cuse, N. Y.  
 WAET—do—East Hartford, Conn.  
 3497.5 U. S. Army—Amateur Radio System,  
 WLG, WLHA, etc.

### 3500—(85.7 m.)—Limit of ama- teur band.

- 3575 WIMK—ARRL, W. Hartford, Conn.  
 3825 WIMK—ARRL, W. Hartford, Conn.

### 4000—(75 m.)—Limit of ama- teur band.

- 4004 KOG—Mutual Tel Co., Honolulu, T. H.  
 4015 NAA—U. S. Naval Radio, Arlington, Va.  
 4017 —U. S. Govt.  
 4020 PTE—Rio de Janeiro, Brazil.  
 4020 VIM—Melbourne, Vic., Australia.  
 —U. S. Govt.  
 4025 —U. S. Govt.  
 4030 BU7—(W4NF) State Arsenal, St. Augus-  
 tine, Fla.  
 CS7—(W4GS) 124th Infantry Armory,  
 Sanford, Fla.  
 —U. S. Govt.  
 4030 VPN—Nassau, Bahamas, W. I.  
 4035 U. S. Naval Reserve, NAA, NDA-NDZ,  
 NEC-NED, NEF-NEG, NEJ-NEK,  
 NEM, NIC-NID, NKF.  
 4050 WJT—R. C. A. Comm. Inc., San Juan,  
 P. R.  
 4054 CLH—Holguin, Oriente, Cuba.  
 4055 —U. S. Govt.  
 4060 —U. S. Govt.  
 4065 —U. S. Govt.  
 4070 —U. S. Govt.  
 4075 NAU—U. S. Naval Rdo. Stn., San Juan, P. R.  
 4080 PTJ—Rio de Janeiro, Brazil.  
 4080 VIU—Kieta, New Guinea.  
 4080 VIV—Madang, New Guinea.  
 4080 VJV—Manus, New Guinea.  
 4080 VJW—Aitape, New Guinea.  
 4080 VJY—Kavieng, New Guinea.  
 4080 JBD—Keijo, Japan.  
 —U. S. Govt.  
 4081.63 FLE—Eiffel Tower, Paris, France.  
 4085 —U. S. Govt.  
 4090 WYO—U. S. Army, Hansley Field, Texas.  
 4090 —U. S. Govt.  
 4105 —U. S. Govt.  
 4108 W8XA—Any Ford Plane, U.S.A.  
 4110 PYL—Rio de Janeiro, Brazil.  
 4115 FZI—Brazzaville, Fr. Equatorial Africa.  
 4120 FZI—Brazzaville, Fr. Equatorial Africa.  
 4120 JHL—Hiroshima, Japan.  
 4122.5 same as 2922.  
 4135 —U. S. Govt.  
 4140 KGUU—Aero. Radio Inc., Little Rock,  
 Ark.  
 WSDG—ditto—Chicago, Ill.  
 WSDH—ditto—Nashville, Tenn.  
 WSDK—ditto—Memphis, Tenn.  
 WRL—R.M.C.A., Duluth, Minn.  
 4148 KFVM—Yacht "Idalia," U.S.A.  
 4155 —U. S. Govt.  
 4160 YNL—All America Cables, Inc., Managua,  
 Nicaragua.  
 4160 JFK—Kuji, Oshima Island, Japan.  
 4164 WEEA—Aero. Radio Inc., Atlanta, Ga.  
 WEEC—ditto—Charleston, S. C.  
 WEEH—ditto—McCrave, Ga.  
 WEEJ—ditto—Jacksonville, Fla.  
 4177.5 GDLJ—S.S. "Homer," England.  
 GFVV—S.S. "Majestic," England.  
 GLSQ—S.S. "Olympic," England.  
 GTSJ—S.S. "Monarch of Bermuda," Eng-  
 land.  
 WOO—A. T. & T., Ocean Gate, N. J.  
 WOY—A. T. & T., Lawrenceville, N. J.  
 4188 Boeing Air Transport. (See 3010)  
 4190 WNEJ—M. R. T. Co., Muirkirk, Md.  
 4195 KNA—M.R.T. Co., Palo Alto, Calif.  
 4196 KOK—M.R.T. Co., Clearwater, Calif.  
 4200 RMGI—Khabarovsk, Siberia, U.S.S.R.  
 4200 U. S. C. G. (NMC, NMW, NOJ, NOR,  
 NOW. See 2684 & 2698.)  
 4205 NAA—U. S. Naval Radio, Arlington, Va.  
 4210 PTQ—Rio de Janeiro, Brazil.  
 4212 KHL—Mutual Tel. Co., Wailuku, T. H.  
 KHM—do—Lihue, T. H.  
 KHO—do—Kamakakai, T. H.  
 KLN—do—Hilo, T. H.  
 4215 GTSJ—S.S. "Monarch of Bermuda," Eng-  
 land.  
 4230 PTS—Bahia, Brazil.  
 4230 FZH—Bamako, Fr. W. Africa.  
 4230 U. S. C. G. (NMG, NMN, NOC, NOF,  
 NOL, NOM, NOS, NOV, NOX,  
 NOY. See 2684 & 2698.)  
 4235 NMV—U. S. C. G., Jacksonville, Fla.  
 4235 FZH—Bamako, Fr. W. Africa.  
 —U. S. Govt.  
 4250 POW—Soengeigerong, Sumatra, D. E. I.  
 4255 —U. S. Govt.  
 4260 WAN—T.R.T. Co., Hialeah, Fla.

- 4265 —U. S. Govt.  
 4276 WIR—R. C. A. Comm. Inc., Rocky Point,  
 N. Y.  
 4280 W3XE—Baltimore, Md.  
 4286 GFM2—Mountbatten, England.  
 4286 VER—Ottawa, Ont., Canada.  
 4290 PKY—Tomohon, Celebes, D. E. I.  
 XGD—Shanghai, China.  
 XHA—Peiping, China.  
 4295 —U. S. Govt.  
 4300 —U. S. Govt.  
 4305 —U. S. Govt.  
 4310 —U. S. Govt.  
 4317.5 PTX—Rio de Janeiro, Brazil.  
 4340 VFZ—Camp Borden, Ont., Canada.  
 4350 POW—Soengeigerong, Sumatra, D. E. I.  
 PTAG—Rio de Janeiro, Brazil.  
 UJJ—Posso, Celebes, D. E. I.  
 4360 PTAH—Bello Horizonte, Brazil.  
 4365 —U. S. Govt.  
 4365 WVL—Quarry Heights, C. Z.  
 4370 —U. S. Govt.  
 4375 —U. S. Govt.  
 4380 —U. S. Govt.  
 4385 NPG—U. S. Naval Radio, San Francisco,  
 Calif.  
 4396 WKI—M.R.T. Co., Sayville, L. I., N. Y.  
 4400 DAN—Norddeich, Germany.  
 4400 PTAL—Bella Vista, Matto Grosso, Brazil.  
 4400.5 WKI—M.R.T. Co., Sayville, L. I., N. Y.  
 4405 WKI—M.R.T. Co., Sayville, L. I., N. Y.  
 4410 WKI—M.R.T. Co., Sayville, L. I., N. Y.  
 4411 CLH—Holguin, Oriente, Cuba.  
 4415 WKI—M.R.T. Co., Sayville, L. I., N. Y.  
 4430 GDLJ—S.S. "Homer," England.  
 GFVV—S.S. "Majestic," England.  
 GLSQ—S.S. "Olympic," England.  
 —U. S. Govt.  
 4432 PTAP—Rio de Janeiro, Brazil.  
 4436 —U. S. Govt.  
 4440 —U. S. Govt.  
 4445 WYO—U. S. Army, Hansley Field, Texas.  
 —U. S. Govt.  
 4450 UJL—Kolonodale, Celebes, D. E. I.  
 4500 DAN—Norddeich, Germany.  
 DANAB—Dornier Seaplane D/O-X, Fried-  
 richshafen, Germany.  
 DENNE—Dirigible "Graf Zeppelin," Fried-  
 richshafen, Germany.  
 4518 KTF—M. R. T. Co., Midway Island, T. H.  
 4525 NPM—U. S. Naval Radio Stn., Pearl Har-  
 bor (Wailupe), T. H.  
 4535 WDG—R.C.A. Comm. Inc., Rocky Point,  
 N. Y.  
 4540 WIR—R.C.A. Comm. Inc., Rocky Point,  
 N. Y.  
 4545 FXE—Beyrouth, Rep. of Lebanon, Asia.  
 KRO—R.C.A. Comm. Inc., Kahuku, T. H.  
 UJM—Tolotoli, Celebes, D. E. I.  
 WDW—R.C.A. Comm. Inc., New Bruns-  
 wick, N. J.  
 4550 KEH—R.C.A. Comm. Inc., Bolinas, Calif.  
 KIKC—R.C.A. Comm. Inc., Bolinas, Cal.  
 4555 WDN—R.C.A. Comm. Inc., Rocky Point,  
 N. Y.  
 4570 WMZ—M.R.T. Co., Sayville, L. I., N. Y.  
 4575 KNR—M.R.T. Co., Clearwater, Calif.  
 4593 WGT—RCA, San Juan, Porto Rico.  
 4600 JFS—Tainan, Formosa.  
 4615 XAQ—Campeche, Mexico  
 4640 PXG—Rio de Janeiro, Brazil.  
 4650 FHA1—Lome, Togo, Africa.  
 WMEC—M. R. T. Co., St. John, Ind.  
 4655 WMED—M.R.T. Co., Covington, Ga.  
 4660 PXR—Rio de Janeiro, Brazil.  
 WMEC—M. R. T. Co., St. John, Ind.  
 4670 PXJ—Rio de Janeiro, Brazil.  
 WJF—M. R. T. Co., Sayville, L. I., N. Y.  
 4675 EAM—Aranjuez, Spain.  
 WMZ—M.R.T. Co., Sayville, L. I., N. Y.  
 4680 CLH—Holguin, Oriente, Cuba.  
 KGH—M. R. T. Co., Hillsboro, Oreg.  
 PXI—Rio de Janeiro, Brazil.  
 4685 WMZ—M.R.T. Co., Sayville, L. I., N. Y.  
 4687 TIC—Cuesta, Costa Rica.  
 4690 KOU—M.R.T. Co., Kailua, T. H.  
 PKX—Rio de Janeiro, Brazil.  
 WMZ—M.R.T. Co., Sayville, L. I., N. Y.  
 XGC—Shanghai, China.  
 4700 YNA—T. R. T. Co., Managua, Nicaragua.  
 4710 PTJ—Rio de Janeiro, Brazil.  
 4719.5 WAES—WAET—see 3485.  
 4720 PYL—Rio de Janeiro, Brazil.  
 4740 PTX—Rio de Janeiro, Brazil.  
 4745 same as 2922.  
 4750 PTV—Rio de Janeiro, Brazil.  
 4752.5 WOO—Ocean Gate, N. J.  
 4755 KEK—M.R.T. Co., Hillsboro, Oreg.  
 4760 LVF—Bahia Blanca, Bs. As., Argentina.  
 PTAG—Rio de Janeiro, Brazil.  
 4775 CFB—Provincial Air Base, Patricia, Ont.,  
 Canada.  
 CFG—Gold Pines, Ont., Canada.  
 CFI—Jackson Manion, Ont., Canada.  
 CFJ—Red Lake, Ont., Canada.  
 CFV—Goose Island, Ont., Canada.  
 CGF—The Pas, Man., Canada.  
 CGL—Winnipeg, Man., Canada.  
 VFL—Swanson Bay, B. C., Canada.  
 VFM—Vancouver, B. C., Canada.  
 4775 CGB—Cold Lake, Man., Canada.  
 4775 CGS—Calgary, Alta., Canada.  
 4785 PKM—Rengat, Sumatra, D. E. I.  
 4790 WRL—R.M.C.A., Duluth, Minn.  
 4795 W2XCU—Ampere, N. J. (Wired Radio  
 Inc., 60 Broadway, N. Y. City).  
 4810 FZE—Djibouti, Somali Coast, Africa.  
 4840 CLH—Holguin, Oriente, Cuba.  
 4850 PPR—Rio de Janeiro, Brazil.  
 4855 VDC—Calgary, Alta., Canada.  
 4860 EAX—Barcelona, Spain.  
 4865 VFZ—Camp Borden, Ont., Canada.  
 4880 EAM—Aranjuez, Spain.

- 4900 YNB—T. R. T. Co., Bluefields, Nicaragua.  
 4905 CFA, CGA, CJA—Drummondville, P. Q.,  
 Canada.  
 4920 PPR—Rio de Janeiro, Brazil.  
 4920 JEW—Osaka, Japan.  
 4955 EAX—Barcelona, Spain.  
 4960 PTAP—Rio de Janeiro, Brazil.  
 4975 GBC—Rugby, England.  
 4983 OEG—Deutsch Altenburg, Austria.  
 4997 ELB—Bassa, Liberia.  
 ELC—Monrovia, Liberia.  
 ELM—Monrovia, Liberia.  
 ELP—Cape Palmas, Liberia.  
 ELS—Sinoe, Liberia.  
 5000 WWV—Bureau of Standards, Washington,  
 D. C.  
 5000 FCF—Casablanca, Morocco.  
 XSG—Woosung, China.  
 YLS—Riga, Latvia.
- 
- 6000 FIX—Moheli, Comoro Islands.  
 FIX1—Fomboni, Comoro Islands.  
 6000 HSI—Singora, Siam.  
 LVP—La Plata, Argentina.  
 OSF—Panu, Belgian Congo.  
 PRMH—Bello Horizonte, Brazil.  
 RKDM—Medeia Gora, U.S.S.R.  
 RKDN—Segia, U.S.S.R.  
 RKDO—Parandovo, U.S.S.R.  
 RV59—Solianka 12, Moscow, U.S.S.R.  
 VE9AQ—Nipigon, Ont., Canada.  
 VE9QQ—Toronto, Ont., Canada.  
 VIA—Adelaide, South Australia.  
 VIB—Brisbane, Qld., Australia.  
 XSG—Woosung, China.  
 YO1—Bucuresti, Roumania.  
 6005 HRB—Tegucigalpa, Honduras.  
 6010 COCO—Luis Casas Romero, Apartado 98,  
 Habana, Cuba. (Stn. at San Miguel  
 86).  
 6012 ZHI—Radio Service Co. of Malaya Ltd.,  
 Broadcast House, 2 Orchard Rd.,  
 Singapore, Straits Settlements, Asia.  
 6020 CQN—Govt. BC. Stn., P. O. Bldg., Ma-  
 cao, Asia.  
 DJC—Koenigs Wusterhausen, Germany.  
 XEBT—Mexico, D. F.  
 6030 OQT—Butu, Belgian Congo.  
 VE9CA—Western BC. Co. Ltd., 620 W.  
 Third St., Calgary, Alta.  
 6035 YNA—T. R. T. Co., Managua, Nicaragua.  
 6040 RILD—Omsk, U.S.S.R.  
 RLEC—Tchita, U.S.S.R.  
 WIXAL—World Wide BC. Corp., Boston,  
 Mass.  
 W4XB—Isle of Dreams BC. Co., Miami  
 Beach, Fla.  
 YDB—Nederlandsch-Indische Radio On-  
 roep Maatschappij, Batavia, Java,  
 D.E.I. (Stn. at Soerabaja).  
 6048 HJ3ABI—G. Pradilla y Cia., Box 513,  
 Bogoto, Colombia, S. Am.  
 6050 GSA—British BC. Co., Daventry, England.  
 RIMK—Topki, U.S.S.R.  
 6060 OSC—Boende, Belgian Congo.  
 HIX—J. R. Saladin, Director de Radios,  
 Santo Domingo, Dominican Republic, W.I.  
 W3XAU—WCAU Broadcasting Co., 1622  
 Chestnut St., Philadelphia, Pa.  
 W8XAL—Crosley Radio Corp., Mason,  
 Ohio.  
 6065 SASH—Motala, Sweden.  
 6067 HJN—Bogota, Colombia, S. Am.  
 6070 OER2—Oesterr. Radioverkehrs A.-G.,  
 Wien-Rosenhugel, Austria.  
 RGFN—Charia, U.S.S.R.  
 6072 FHA1—Lome, Togo, Africa.  
 OXY—Statsradiofonian Driiftslederens Kon-  
 torer, Axelboge, Copenhagen V, Den-  
 mark.  
 6075 YV5RMO—Santiago M. Vegas, Box 214,  
 Maracaibo, Venezuela.  
 6080 TIR—Cartago, Costa Rica.  
 CP5—C. Lopez Videla, Cia. Radio Boli-  
 vian, Casilla 637, La Paz, Bolivia,  
 S. Am.  
 RFCK—Moscow, U.S.S.R.  
 W2XCX—Kearney, N. J.  
 6090 VE9BJ—C. A. Munro Ltd., 16 Simonds  
 St., St. John, N. B., Canada.  
 6095 VE9GW—Bowmanville, Ont., Canada.  
 6100 W3XAL—National BC. Co., Bound Brook,  
 N. J.  
 W9XF—do—Downers Grove, Ill.  
 RPCI—Riazan, U.S.S.R.  
 RMDK—Ksenievskaja, U.S.S.R.  
 RMDQ—Amazar, U.S.S.R.  
 6110 VE9HX—W. C. Borrett, Nova Scotian  
 Hotel, Halifax, N. S., Canada.  
 VUC—Indian State Broadcasting Service,  
 Calcutta, India.  
 6112 YV2RC—Cia. Anonima Venezolana de Ra-  
 dio, Caracas, Venezuela.  
 6117 HJ1ABE—Antonio Fuentes L., Apartado  
 31, Cartagena, Colombia, S. Am.  
 6120 OOU—Basankusu, Belgian Congo.  
 W2XE—Atlantic BC. Corp., near Wayne,  
 N. J.  
 YDA—Nederlandsch-Indische Radio On-  
 roep Maatschappij, Batavia, Java,  
 D.E.I. (Stn. at Bandoeng).  
 6122 ZTI—Johannesburg, South Africa.  
 6130 LCI—Tefoy, Oslo, Norway.  
 6135 RKK—Moscow, U.S.S.R.  
 YID—Baghdad, Iraq, Asia.  
 ZGE—F. E. Byron, Inst. of Medical Re-  
 search, Kuala Lumpur, Federated Ma-  
 lay States.  
 6140 W8XX—Westinghouse Elec. & Mfg. Co.,  
 East Pittsburgh, Pa.



# Progressive

(TRADE MARK)



## TRANSMITTER UNITS FOR RADIO AMATEURS

**STEP BY EASY STEP**

*from the Start to the Finish—*

### ANNOUNCED MARCH 1935

at the I.R.S.M. CONVENTION and in the  
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**\$65 PUTS YOU ON THE AIR!**

That's NEWS!—you're on the air for \$65—with the "PROGRESSIVE" Universal Exciter and low power unit, a real "he-man" crystal-controlled all-band Xmitter with enough extra power supply for the next step (P.P. 865's). Simply follow the easy-to-understand diagrams in the "PROGRESSIVE GUIDE." The 865 step adds only \$35. Never before could you buy so many thrills for so little money!

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The complete unit illustrated above—is the Progressive Transmitter used at W9THL. In its wanderings over the world it has among its transocean stations worked recordings at Argentina, Belgium, Canal Zone, Cuba, England, France, Germany, Honolulu, Scotland and Spain.

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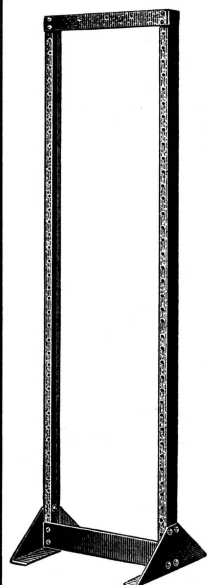
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P. M. to 12 P. M.—also on 20, 40, 80, 160  
meter bands.

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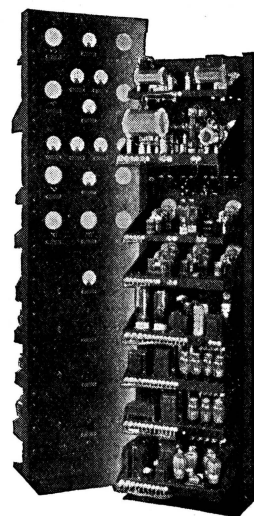
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*Free for the Asking!*

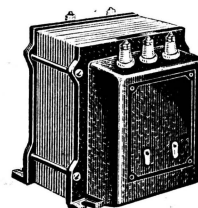
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The Finish



Type "F" Deluxe—A sturdy fully shielded cast iron mounting for high voltage transmitter transformers.



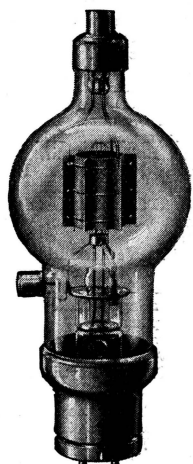
Type "D"—The Progressive Transmitter Deluxe Mounting.

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



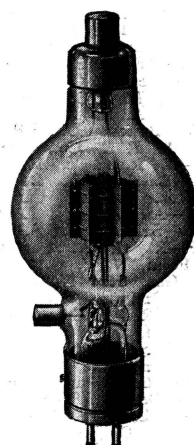
- 6150 RKOO—Odessa, U.S.S.R.  
YV3RC—Cia. Anonima Venezolana de Radio, Caracas, Venezuela.
- 6160 PXC—Rio de Janeiro, Brazil.
- 6170 CFB—Provincial Air Base, Patricia, Ont., Canada.  
CFG—Gold Pines, Ont., Canada.  
CFI—Jackson Manion, Ont., Canada.  
CFJ—Red Lake, Ont., Canada.  
CFV—Goose Island, Ont., Canada.  
PXD—Rio de Janeiro, Brazil.
- 6175 ONA—Banana, Belgian Congo.  
FTX—St. Assise, near Paris, France.
- 6180 PXG—Rio de Janeiro, Brazil.  
REIK—Petropavlovsk, U.S.S.R.  
RKOP—Kiev, U.S.S.R.  
TGW—Telegrafos y Telefonos Nacionales, Seccion de Radio, Guatemala City, C. A.
- 6185 VJZ—Rabaul, New Guinea.
- 6190 TIR—Cartago, Costa Rica.  
PXR—Rio de Janeiro, Brazil.  
RIPV—Barnaoul, U.S.S.R.  
RRRR—Tachkent, U.S.S.R.  
VIS—Sydney, N.S.W., Australia.
- 6200 HBC—Berne, Switzerland.  
RMDM—Mogotcha, U.S.S.R.  
RMDP—Erofei Pavlovitch, U.S.S.R.  
RMWW—Tachkent, U.S.S.R.  
VIP—Perth, W. Australia.
- 6210 VAJ—Digby Island, Prince Rupert, B. C., Canada.  
WRL—R.M.C.A., Duluth, Minn.  
OCN—All America Cables Inc., Valverde, Lima, Peru.
- 6240 PXJ—Rio de Janeiro, Brazil.  
RMAS—Tafouin, U.S.S.R.  
RMAY—Troitse Zarubino, U.S.S.R.
- 6243.5 KSZ—Tex. Pipe Line Co., McCarney Texas.
- 6245 KYI—do—Kings Mill, Texas.
- 6250 OQE—Costermansville, Belgian Congo.  
LMO—Oslo Meteo, Norway.  
HJ3ABF—Manuel Jose Uribe & Cia., Box 317, Bogota, Colombia, S. Am.  
PZB—Paramaribo, Surinam, S. Am.  
REIA—Ouialy, U.S.S.R.  
REIM—Ouzoukair, U.S.S.R.  
REIX—Akmolinsk, U.S.S.R.  
RGAZ—Kotelnitch, U.S.S.R.  
XPG—Shanghai, China.  
XPN—Kamen, China.  
XSG—Woosung, China.
- 6260 KGUU—Aero. Radio Inc., Little Rock, Ark.  
WSDG—ditto—Chicago, Ill.  
WSDH—ditto—Nashville, Tenn.  
WSDK—ditto—Memphis, Tenn.  
PAA—Amsterdam, Netherlands.  
PBB—Den Helder, Netherlands.  
PXI—Rio de Janeiro, Brazil.
- 6275 KGUU—Aero. Radio Inc., Little Rock, Ark.  
WSDG—ditto—Chicago, Ill.  
WSDH—ditto—Nashville, Tenn.  
WSDK—ditto—Memphis, Tenn.
- 6280 H11A—Rafael Western, Santiago de los Caballeros, Dominican Republic, W. I.
- 6285 CZA—Canadian Marconi Co., Drummondville, P. Q., Canada.
- 6300 RCE—Leningrad, U.S.S.R.  
RMBA—Preobrajensia, U.S.S.R.
- 6320 WEEA—Aero. Radio Inc., Atlanta, Ga.  
WEEC—ditto—Charleston, N. C.  
WEEH—ditto—McCrae, Ga.  
WEEJ—ditto—Jacksonville, Fla.  
CFB—Sioux Lookout, Ont., Canada.  
CFD—Kenora, Ont., Canada.  
CFG—Pickle Lake, Ont., Canada.  
CFJ—Red Lake, Ont., Canada.  
HIZ—George Abbes, Duarte 68, Santo Domingo, Dominican Republic, W. I.  
OQA—Kigoma, Belgian Congo.
- 6330 JZG—Tokyo, Japan.  
WRL—R.M.C.A., Duluth, Minn.
- 6345 OSD—Kigali, Belgian Congo.
- 6350 ZLB—Awarua, Otago, New Zealand.
- 6360 VFA—Halifax, N. S., Canada.
- 6370 KPH—R.C.A. Comm. Inc., Bolinas, Calif.
- 6375 OQR—Usumbura, Belgian Congo.
- 6375 VAA—Ottawa, Ont., Canada.
- 6380 GIO—Oxford, England.
- 6383 KIF—Davao, Philippine Islands.  
KUI—MacLeod & Co., Cebu, P. I.  
RNZ—Petropavlovsk, U.S.S.R.
- 6400 JFYC—S. S. "Tatsuta Maru," Japan.
- 6405 OQJ—Inongo, Belgian Congo.
- 6420 RCAD—Minsk, U.S.S.R.
- 6425 CGS—Calgary, Alta., Canada.  
VGCN—S. S. "P. M. L. 8," Canada.  
W2XCU—Ampere, N. J. (Wired Radio Inc., 60 Broadway, N. Y. City).  
W3XL—R.C.A. Comm. Inc., Bound Brook, N. J.  
CZE—Provincial Police, Victoria, B. C., Canada.  
CZF—do—Vancouver, B. C., Canada.  
CZG—do—Prince Rupert, B. C., Canada.
- 6430 OQF—Port Francoui, Belgian Congo.
- 6440 KHI—Press Wireless Inc., near Daly City, Calif.  
RTA—Novosibirsk, U. S. S. R.  
HJ1ABB—Elias J. Pellet B., Box 715, Barranquilla, Colombia, S. Am.  
OTO—Leopoldville, Belgian Congo.
- 6452 KAM—Passy, Philippine Islands.
- 6460 RHCC—Khibinogorsk, U.S.S.R.
- 6465 OQO—Basoko, Belgian Congo.
- 6480 EDR4—Palma de Mallorca, Balears, Spain.  
HJ5ABD—"La Voz del Valle," Miguel Rivas, Cali, Colombia, S. Am.
- 6495 OTH—Elizabethville, Katanga, Belgian Congo.
- 6500 GFM—Mountbatten, England.
- 6515 KHK—Mutual Tel. Co., Wahiawa, Oahu, T. H.
- 6515 WPM—Inland Waterways Corp., Birmingham, Ala.
- 6520 XPI—Pratas, China.  
REL—Bourli-Tube, U.S.S.R.
- 6530 KUP—San Francisco, Calif.
- 6535 OSB—Kikwit, Belgian Congo.
- 6545 OQB—Bumba, Belgium Congo.
- 6550 RKL—M—Zaporozje-Dnepetrovskoe, U.S.S.R.
- 6560 FHP—Bangui, Fr. Equatorial Africa.  
KEK—M.R.T. Co., Hillsboro, Oreg.  
RFN—Moscow, U. S. S. R.
- 6570 OQV—Albertville, Belgian Congo.
- 6590 VQR—Nairobi, Kenya, Br. East Africa.
- 6593 VQQ—Kampala, Uganda, E. Africa.  
ZDB—Broken Hill, Northern Rhodesia, S. Africa.  
ZDG—Mpika, Northern Rhodesia, S. Africa.  
ZEA—Airways Radio, Salisbury, Southern Rhodesia, Africa.  
ZEB—Airways Radio, Bulawayo, S. Rhodesia.  
ZEP—Dodoma, Tanganyika, E. Africa.  
ZEO—Mbeya, Tanganyika, E. Africa.  
ZER—Moshi, Tanganyika, E. Africa.  
ZTF—Maitland, Cape, South Africa.  
ZTG—Airways Radio, Germiston, Tvl., S. Africa.
- 6600 DAN—Norddeich, Germany.  
DANAB—Dornier Seaplane DO-X, Friedrichshafen, Germany.  
DENNE—Dirigible "Graf Zeppelin," Friedrichshafen, Germany.  
RKLX—Odessa, U.S.S.R.  
RJTL—Dmitriev-Lgovsky, U.S.S.R.
- 6603.5 KEH—Marland Pipe Line Co., Panhandle City, Texas.  
KFE—do—Ponca City, Okla.
- 6610 CWE—Direccion de Radio Comunicaciones, Cerrito Radio, Uruguay.  
REN—Moscow, U.S.S.R.
- 6611 RW72—Moscow, U.S.S.R.
- 6615 KIKL—Aeronautical Radio Inc., near Los Angeles, Calif.
- 6635 OTC—Coquilhatville, Belgian Congo.
- 6650 IAC—Coltano, Italy.
- 6664 KYU—Texas Pipe Line Co., Wichita Falls, Texas.
- 6665 LPG4—General Pacheco, Buenos Aires, Argentina.
- 6666.6 FGM—Kidal, Sudan, Fr. W. Africa.  
FGW1—Kaedi, Fr. W. Africa.
- 6667 ZSBP—S. S. "Kildalkey," S. Africa.  
ZSBX—S. S. "Radioline," S. Africa.
- 6675 FIS—Tamatave, Madagascar.
- 6675 FNH—S. S. "Nicolas Paquet," France.  
HBO—Prangins, Switzerland.  
XGG—Moukden, China.
- 6675 YLA—Riga, Latvia.  
YLB—Liepaja, Latvia.  
VFZ—Camp Borden, Ont., Canada.  
HC2RL—Dr. Roberto Levi, Box 759, Guayaquil, Ecuador.
- 6680 DGK—Nauen, Germany.  
KBK—R.C.A. Comm. Inc., Manila, P. I.
- 6685 VAA—Ottawa, Ont., Canada.  
VQB—Sandakan, Br. N. Borneo.  
ZGA—Kuala Lumpur, Federated Malay States, Asia.
- 6690 VAA—Ottawa, Ont., Canada.  
VAP—Port Churchill, Man., Canada.  
VAY—Cape Hopes Advance, Hudson Strait, Canada.
- 6690 VQQ—Kampala, Uganda, E. Africa.  
CFA—Canadian Marconi Co., Drummondville, P. Q., Canada.  
VOR—Nairobi, Kenya, Africa.  
ZDB—Broken Hill, Northern Rhodesia, S. Africa.  
ZDG—Mpika, Northern Rhodesia, S. Africa.  
ZEA—Airways Radio, Salisbury, Southern Rhodesia, Africa.  
ZEB—Airways Radio, Bulawayo, S. Rhodesia.  
ZEP—Dodoma, Tanganyika, E. Africa.  
ZEO—Mbeya, Tanganyika, E. Africa.  
ZER—Moshi, Tanganyika, E. Africa.  
ZTF—Maitland, Cape, South Africa.  
ZTG—Airways Radio, Germiston, Tvl., S. Africa.
- 6695 OQI—Lisala, Belgian Congo.
- 6695 VFA—Halifax, Nova Scotia, Canada.
- 6700 CKD—Winnipeg, Man., Canada.  
CKF—Saskatoon, Sask., Canada.  
CKM—Moose Jaw, Sask., Canada.
- 6700 JAK—Tokyo, Japan.  
RIBF—Syzran, U.S.S.R.
- 6705 YID—Baghdad, Iraq, Asia.
- 6710 PUB—Blumenau, S. Catharina, Brazil.  
KEF—R.C.A. Comm. Inc., Bolinas, Calif.
- 6717.5 WDB—R. C. A. Comm. Inc., Rocky Point, N. Y.
- 6720 PMH—Malabar, Java.
- 6725 VHJ—Navy Office, Melbourne, Vic., Australia.
- 6725 WQO—R.C.A., Rocky Point, N. Y.
- 6730 LSV—Olivos, Bs. As., Argentina.
- 6730 VQA—Jesselton, Br. N. Borneo.
- 6732.5 KIKG—R.C.A. Comm. Inc., Los Angeles, Calif.  
WDA—R.C.A. Comm. Inc., Rocky Point, N. Y.
- 6738 PKW—Bagansapiapi, Sumatra, D. E. I.
- 6740 WEJ—R.C.A., Rocky Point, N. Y.
- 6741 FIU1—Tananarive, Madagascar.
- 6742 KAL—Legaspi, Philippine Islands.
- 6745 PCU—s'Gravenhage, Netherlands.  
GFN—Air Ministry, London, Eng.  
OQB—Bumba, Bangala, Belgian Congo.  
ZLF—Gen. Hq. N. Z. Military Forces, Wellington, New Zealand.
- 6750 GFJ2—Air Ministry, London, England.  
JVT—Nasaki, Ibaraki-ken, near Tokyo, Japan.  
RMSE—Karabougaz Port, U.S.S.R.
- 6755 KZGF—Philippine Long Distance Telephone Co., Manila, P. I.  
WOA—A. T. & T. Co., Lawrenceville, N. J.
- 6760 VAJ—Digby Island, Prince Rupert, B. C., Canada.
- 6760 CFA2—Canadian Marconi Co., Drummondville, P. Q., Canada.  
RENJ—Karsakpai, U.S.S.R.
- 6765 YIB—Basrah, Iraq, Asia.
- 6770 WAU—T. R. T. Co., Hialeah, Fla.  
WBJ—T. R. T. Co., Hingham, Mass.  
KZGF—Philippine Long Distance Telephone Co., Manila, P. I.
- 6775 CIG—Oxford, England.
- 6775 OQK—Aketi, Belgian Congo.
- 6777 VAA—Ottawa, Ont., Canada.
- 6777.5 VAY—Cape Hopes Advance, Hudson Strait, Canada.  
WAB—T. R. T. Co., Hialeah, Fla.  
WBO—T. R. T. Co., Hingham, Mass.  
WFF—T. R. T. Co., New Orleans, La.  
SUW—Abu Zabal, Egypt.  
EAH—Vallecas, Spain.  
RENT—Gouriev, U.S.S.R.
- 6785 OQD—Kindu, Belgian Congo.  
WAU—T. R. T. Co., Hialeah, Fla.  
WFC—T. R. T. Co., New Orleans, Fla.  
WNN—T. R. T. Co., Mobile, Ala.
- 6790 VIS—Sydney, NSW, Australia.  
RIBO—Kyarkeno, U.S.S.R.  
SQB—Police, Bialystok, Poland.
- 6792 HAP3—Budapest, Hungary.  
SQZ—Police, Warszawa, Poland.
- 6795 GDB—Rugby, England.
- 6800 VHM—Weekly Times, Melbourne, Vic., Australia.  
JBC—Keijo, Japan.  
EDR3—Tablero, Canarias, Spain.  
SQA—Police, Lwow, Poland.
- 6800 VJB—Maria Island, Tasmania.
- 6805 YNU—All America Cables, Inc., Managua, Nicaragua.
- 6810 OSK—Kitega, Belgian Congo.  
PRRB—Belem, Para, Brazil.
- 6810 JNL—Nagoya, Japan.  
RENG—Atch-Sai, U.S.S.R.
- 6815 KNN—M. R. T. Co., Kailua, T. H.  
KNR—do—Clearwater, Calif.  
KQA—do—Kailua, T. H.  
KTA—do—Guam, Guam.  
WML—do—Sayville, N. Y.
- 6818 KPM—Iloilo, Philippine Islands.  
KUH—Macleod & Co., Manila, P. I.  
RELZ—Spassky Zavod, U.S.S.R.
- 6818.1 CNE—Rabat, Morocco.
- 6820 CFA, CGA, CJA—Drummondville, P. Q., Canada.  
VIM—Melbourne, Vic., Australia.  
FTG—Sainte Assise, near Paris, France.
- 6830 EAM—Aranjuez, Spain.
- 6835 VAA—Ottawa, Ont., Canada.
- 6837 VAP—Port Churchill, Hudson Bay, Man.
- 6840 VPA—Mabaruma, British Guiana, S. Am.  
VRV—Kamakusa, British Guiana, S. Am.  
VRX—Apoteri, British Guiana, S. Am.  
OQG—Kongolo, Belgian Congo.  
HAT2—Szekesfehervar, Hungary.  
RKNK—Kharkov, U.S.S.R.
- 6840 VRN—Bartica, British Guiana, S. A.  
VRW—Enachu, British Guiana, S. A.  
VRY—Demerara, British Guiana, S. A.  
ZEU—Potaro, British Guiana, S. Am.
- 6845 KEN—R. C. A. Comm. Inc., Bolinas, Cal.
- 6850 VAK—Gonzales Hill, B. C., Canada.  
VRO—Suva, Viti Levu, Fiji Islands.  
VSB—Tongatabu, Friendly Islands.  
VIJ—Samarai, Papua.  
VPE—Labasa, Fiji Islands.  
VVF—Taveuni, Fiji Islands.  
VOL—Savusavu, Fiji Islands.  
LPG5—General Pacheco, Buenos Aires, Argentina.  
REN1—Tchikment, U.S.S.R.  
RKF—Moscow, U.S.S.R.
- 6852.5 WGU—R.C.A. Comm. Inc., San Juan, P.R.  
WQEG—R.C.A. Comm. Inc., Washington, D. C.
- 6855 PRH—Bello Horizonte, Brazil.
- 6860 KEL—R. C. A. Comm. Inc., Bolinas, Cal.
- 6860 OTL—Leopoldville, Belgian Congo.  
PQB—Belem, Para, Brazil.
- 6860 KEL—R.C.A., Bolinas, Calif.
- 6865 OCZ—El Progreso, Lima, Peru.
- 6865 EAX—Barcelona, Spain.
- 6870 YNR—All America Cables, Inc., Managua, Nicaragua.  
EAK—San Lorenzo, Canary Islands.  
RKF—Moscow, U.S.S.R.
- 6875 GZP—Matara, Ceylon.
- 6875 W6XU—R.C.A., Bolinas, Calif.  
KNK—M.R.T. Co., Palo Alto, Calif.  
KNN—M. R. T. Co., Kailua, T. H.  
KNW—do—Palo Alto, Calif.  
KTA—do—Guam, Guam.
- 6880 CFF—Baker Lake, N. W. T., Canada.  
OQN—Irumu, Belgian Congo.  
CFA4—Canadian Marconi Co., Drummondville, P. Q., Canada.  
RINY—Oirat-Toura, U.S.S.R.  
RKF—Moscow, U.S.S.R.
- 6885 VWK—Karachi, India.
- 6885 EAM—Aranjuez, Spain.

# EIMAC TUBES



EIMAC 150T

**Are the Choice of Discriminating  
Amateurs Everywhere  
Because  
Eimac Tubes Will Do  
A Better Job—  
Easier**



EIMAC 50T

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By using costly TANTALUM metal for grids and plates, it is possible for EIMAC to permanently guarantee against tube failures caused by gas released thru overloads. No other material suitable for vacuum tube construction will permit of such a guarantee!

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EIMAC tube booklet*

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## **EITEL-McCULLOUGH, INC.**

**SAN BRUNO, CALIFORNIA**

**U. S. A.**

Cable  
"EIMAC"

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



- 6890 KEB—R.C.A. Comm. Inc., Bolinas, Calif.  
RLGL—Kabanak, U.S.S.R.  
WQJ—R.C.A. Comm. Inc., Detroit, Mich.  
6895 EDK—San Lorenzo, Gran Canaria, Spain.  
6900 VAI—Point Grey, B. C., Canada.  
RKF—Moscow, U.S.S.R.  
6904.5 PZA—Paramaribo, Surinam.  
6905 GDS—Rugby, England.  
6910 RJBD—Sverdlovsk, U.S.S.R.  
ZDA—Livingstone, Northern Rhodesia, Af.  
ZDH—Fort Jameson, Northern Rhodesia.  
ZEF—Broken Hill, Northern Rhodesia.  
ZFF—Mpika, Northern Rhodesia.  
6915 ZCI—Cape D'Aguilar, Hong Kong, Asia.  
6920 KMB—Press Wireless Inc., San Francisco, Calif.  
6920 RFAX—Moscow, U.S.S.R.  
WEE—Press Wireless Inc., Hicksville, L. I., N. Y.  
WJC—ditto—Addison Twp., Ill.  
WJM—ditto—Washington, D. C.  
6927.5 WH—M. R. T. Co., Sayville, L. I., N.Y.  
6930 EAX—Barcelona, Spain.  
6930 RENU—Aktubinsk, U.S.S.R.  
RGKX—Arkhangelsk, U.S.S.R.  
RLEV—Verkhne-Oudinsk, U.S.S.R.  
6935 WID—M. R. T. Co., Sayville, L. I., N. Y.  
6940 GFX—R. A. F., Ismailia, Egypt.  
6940 RFAV—Bykovo, U.S.S.R.  
6942.5 WIB—M. R. T. Co., Sayville, L. I., N.Y.  
6944 KTF—M. R. T. Co., Midway Island, T. H.  
6945 OTH—Elisabethville, Belgian Congo.  
EAK—San Lorenzo, Canary Islands.  
6950 GFN5—Air Ministry, London, England.  
6950 RLXS—Saratov, U.S.S.R.  
WKP—R. C. A. Comm., Inc., Rocky Point, N. Y.  
ZLF—Gen. Hq. N. Z. Military Forces, Wellington, New Zealand.  
6957.5 WEO—R.C.A. Comm. Inc., New Brunswick, N. J.  
6960 JAN—Tokyo, Japan.  
6960 OTS—Stanleyville, Belgian Congo.  
PRHA—Rio de Janeiro, Brazil.  
RELB—Bertys, U.S.S.R.  
6965 KZGG—Philippine Long Distance Telephone Co., Cebu (Cebu), P. I.  
WIZ—R.C.A. Comm. Inc., Rocky Point, N. Y.  
6970 EDR2—Pozuelo del Rey, Madrid, Spain.  
6975 FXE—Beyrouth, Syria.  
6975 FXM—Beyrouth, Rep. of Lebanon, Asia.  
GFB2—Croydon Airport, London, England.  
6976 FHT—Fort Lamy, Fr. Equatorial Africa.  
6977 CNC—Tangier, Morocco.  
CND—Agadir, Morocco.  
6977 LMB—Bergen, Norway.  
LMT—Tromsø, Norway.  
RNZ—Petrovsk, U.S.S.R.  
SAS—Karlsborg, Sweden.  
6980 VDC—Calgary, Alta., Canada.  
6980 VIS—Sydney, N.S.W., Australia.  
6980 VKS—Sydney, NSW, Australia.  
6980 VMS—Sydney, NSW, Australia.  
VQR—Nairobi, Kenya, Br. E. Africa.  
TIR—Cartago, Costa Rica.  
KZGH—Philippine Long Distance Telephone Co., Iloilo (Iloilo), P. I.  
RFAO—Moscow, U.S.S.R.  
RKNZ—Kharkov, U.S.S.R.  
6985 GIJ—Oxford, England.  
6985 HPC—T.R.T. Co., Panama, Rep. of Panama.  
6990 U. S. Army Amateur Radio System, WLG, WLHA, etc.  
JVS—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
LCL—Jeløy, Oslo, Norway.  
6993 KBT—Butuan, Philippine Islands.  
6995 SUA—Giza, Egypt.  
SUB—Baharia, Egypt.  
SUD—Dakhla, Egypt.  
SUE—Siwa, Egypt.

### 7000—(42.9 m.)—Limit of amateur band.

- 7038 WIMK—ARRL, W. Hartford, Conn.  
7046 W9FO—Radio Amateur Call Book.  
7150 WIMK—ARRL, W. Hartford, Conn.  
7286 W9FO—Radio Amateur Call Book.

### 7300—(41.1 m.)—Limit of amateur band.

- 7305 GZO—Stonecutter Radio, Hongkong.  
HSE—Bangkok, Siam, Asia.  
7310 RFBY—Moscow, Kiazma, U.S.S.R.  
RMWP—Samarkand, U.S.S.R.  
7315 GEH—British Royal Air Force, Heliopolis, Cairo, Egypt.  
7315—GHK2—British Royal Air Force, Ismailia, Egypt.  
7317 HSW—Bhuket, Siam.  
7320 XGE—Moukden, China.  
7325 DHE—Nauen, Germany.  
7330 RKMI—Kriovoi Rog, U.S.S.R.  
RNZ—Petrovsk, Kamchatka, Siberia, U.S.S.R.  
7332 DFM—Nauen, Germany.  
7340 KDG—Press Wireless, Inc., Honolulu, T. H.  
KMN—ditto—San Francisco, Calif.  
RGLC—Syktyvkar, U.S.S.R.  
WJA—ditto—666 Lake Shore Dr., Chicago.  
WJM—ditto—Washington, D. C.  
WJU—ditto—Hicksville, L. I., N. Y.  
7343 XDO—Radio Central, Chapultepec, D. F., Mexico.  
7345 PRFK—Rio de Janeiro, Brazil.  
7350 PDT—Kootwijk, Netherlands.  
7355 KMQ—Press Wireless Inc., San Francisco, Calif.

- 7360 PMW—Riouw Island, D. E. I.  
ZDA—Livingstone, Northern Rhodesia, Af.  
ZDH—Fort Jameson, Northern Rhodesia.  
ZEF—Broken Hill, Northern Rhodesia.  
ZFF—Mpika, Northern Rhodesia.  
7370 KEQ—R. C. A. Comm. Inc., Kahuku, T. H.  
RKKE—R.C.A. Comm. Inc., Seattle, Wn.  
RFBX—Moscow, U.S.S.R.  
RKLX—Odessa, U.S.S.R.  
7370 WJN—R. C. A. Comm. Inc., Rocky Point, N. Y.  
7380 XDB—Radio Central, Chapultepec, D. F., Mexico.  
7389 UOK—Deutsch-Altenburg, Austria.  
7390 ZLW—Wellington, New Zealand.  
JVR—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
RKNE—Kharkov, U.S.S.R.  
7400 WEM—R.C.A., Rocky Point, N. Y.  
HJ3ABD—"Columbia Broadcasting," Alford's Radio Service, Box 509, Bogotá, Colombia.  
7405 RRRH—Khabarovsk, U.S.S.R.  
GFK3—Croydon Airport, London, England.  
7407.5 WEN—R.C.A., New Brunswick, N. J.  
7408 RFAJ—Moscow, U.S.S.R.  
7410 VQR—Nairobi, Kenya, Br. E. Africa.  
7415 PROW—Rio de Janeiro, Brazil.  
7415 WEG—R.C.A. Comm. Inc., Rocky Point, N. Y.  
7420 JAE—Tokyo, Japan.  
7425 PUE—Barra, Bahia, Brazil.  
7426 PVB—Borba, Brazil.  
7430 FYC—Pontoise, near Paris, France.  
7430 KGO—Globe Wireless, Ltd., Mussel Rock, Calif.  
KGR—do—Seattle, Wash.  
KGS—do—Kaena Pt., Honolulu, T. H.  
KGY—do—Cypress, Calif.  
WGA—do—Garden City, N. Y.  
RKMJ—Zaporozhje, U.S.S.R.  
7440 RKMJ—Khrystynovka, U.S.S.R.  
7444 HBQ—Prangins, Switzerland.  
7445 KGO, KGR, KGS, KGX, WGA (See 7430).  
7450 GFN4—Air Ministry, London, England.  
RUK—Stalinabad, U.S.S.R.  
7458 PMG—Malabar, Java.  
7460 LZB—Sofia, Bulgaria.  
RKME—Jitomir, U.S.S.R.  
7470 JVO—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
RKME—Kharkov, U.S.S.R.  
7480 GDW—Rugby, England.  
7490 FTB—Sainte Assise, near Paris, France.  
7500 CFA, CGA, CJA—Drummondville, P. Q., Canada.  
CKS—Calgary, Alta., Canada.  
FGD—Tabou, Fr. W. Africa.  
FGX1—Zinguncho, Fr. W. Africa.  
7500 FBP1—Papeete-Mahina, Tahiti.  
FPE—Taiohae, French Oceania.  
FRP1—Poulo-Condore, Fr. Indo China.  
ISV—Bender Kassim, Italian Somaliland.  
7500 LPGA—General Pacheco, Buenos Aires, Argentina.  
RKI—Moscow, U.S.S.R.  
VFZ—Camp Borden, Ont., Canada.  
VID—Darwin, Northern Australia.  
XOW—Fochow, China.  
ZMP—Aleipata, Samoa.  
7510 JVP—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
REJK—Karsapka, U.S.S.R.  
RKND—Kharkov, U.S.S.R.  
7520 RKT—M. C. A. Inc., Kahuku, T. H.  
RKT—Moscow, U.S.S.R.  
7528 PMF—Malabar, Java.  
7537 DIY—Koenigs Wusterhausen, Germany.  
7540 GHL—Aldershot, Hampshire, England.  
7545 RKT—Moscow, U.S.S.R.  
7550 CGE—Calgary, Alta., Canada.  
CFQ, CFR—Edmonton, Alta., Canada.  
CKS—Calgary, Alta., Canada.  
7556 FZQ2—Hanoi, Fr. Indo-China.  
7560 JYP—Tokyo, Japan.  
7565 KWT—Trans-Pacific Comm. Co. Ltd., Dixon, Calif.  
7570 OXF—Julianehab, Greenland.  
7575 FXD—Beyrouth, Syria.  
7575 FXJ—Beyrouth, Rep. of Lebanon, Asia.  
7580 ELA—Monrovia, Liberia, Africa.  
KUK—M. R. T. Co., Manila, P. I.  
7580 XGE—Anking, China.  
XGO—Shanghai, China.  
7590 GOQ—Ongar, Essex, England.  
7595 GTN—M. R. T. Co., Manila, P. I.  
7600 YNA—T. R. T. Co., Managua, Nicaragua.  
7600 VJA—Salamao, New Guinea.  
7610 VJX—Bulolo, New Guinea.  
KWX—Trans-Pacific Comm. Co., Ltd., Dixon, Calif.  
7620 RKPO—Vorochilovsk, U.S.S.R.  
7625 PROM—Barra Mansa, Brazil.  
KRG—Federal-State Marketing Svc., San Francisco, Calif.  
KRM—Federal-State Marketing Svc., Los Angeles, Calif.  
KRN—Federal-State Marketing Svc., Brawley, Calif.  
WEEX—American Radio News Corp., Tinley Park, Ill.  
7626 RIM—Tachkent, U.S.S.R.  
7640 KRG—Federal-State Marketing Svc., San Francisco, Calif.  
7640 OCK—All America Cables, Inc., Lima, Peru.  
PROF—Rio de Janeiro, Brazil.  
7640 WEEW—Am. Radio News Corp., Carlstadt, N. J.  
WEEX—ditto—Tinley Park, Ill.  
7641 TIU—Uvita, Costa Rica.

- 7650 FZW—Tananarive, Madagascar.  
REAJ—Moscow, U.S.S.R.  
7655 PYD—Bella Vista, Matto Grosso, Brazil.  
7655 KNN, KNW, KTA, WML (See 6815).  
KWA—M.R.T. Co., Palo Alto, Calif.  
7660 FTI—Sainte Assise, near Paris, France.  
FZT—Tananarive, Madagascar.  
7662.5 WKI—M.R.T. Co., Sayville, L. I., N. Y.  
KIWB—M.R.T. Co., Lenexa, Kans.  
KQB—M. R. T. Co., Kailua, T. H.  
WMEC—M. R. T. Co., St. John, Ind.  
7670 KNN, KNW, KTA, WML (See 6815).  
KWB—M.R.T. Co., Palo Alto, Calif.  
7685 TIR—Cartago, Costa Rica.  
7688 TYC2—Pontoise, near Paris, France.  
7690 LGS—Svalbard, Norway.  
7690 PNC—Batavia, Java, D.E.I.  
PND—Soerabaya, Java, D.E.I.  
XRC—Chungking, China.  
7692 FIZ1—Sakaraha, Madagascar.  
7692.3 FGA—Dakar, French West Africa.  
PJZ—Willemstad, Curacao, D. W. I.  
7700 FYA—Pontoise, near Paris, France.  
ONA—Banana, Belgian Congo.  
7700 RKNB—Kharkov, U.S.S.R.  
TYC2—Pontoise, near Paris, France.  
YNB—T. R. T. Co., Bluefields, Nicaragua.  
7705 PROL—Bello Horizonte, Brazil.  
7710 OYP—Thorshavn, Faroe Islands.  
7715 KEE—R.C.A., Bolinas, Calif.  
7720 GYC2—Horsea, Portsmouth, England.  
7730 PDL—Kootwijk, Netherlands.  
7730 KNN, KNW, KTA, WML (See 6815).  
WEV—R.C.A. Comm. Inc., New Brunswick, N. J.  
7735 PDL—Kootwijk, Netherlands.  
7737.5 WIC—M. R. T. Co., Sayville, L.I., N.Y.  
7740 CEC—Compañía Internacional, San Martín 50, Santiago, Chile.  
IBD—Keijo, Japan.  
7745 TIJ—Puerto Jimenez, Costa Rica.  
7745 KNN, KTA, WML (See 6815).  
WIE—M. R. T. Co., Sayville, L. I., N.Y.  
WMEN—M. R. T. Co., Chalmette, La.  
7752.5 WIF—M. R. T. Co., Sayville, L.I., N.Y.  
7755 OQA—Kigoma, Belgian Congo.  
7760 KNN, KNW, KTA, WML (See 6815).  
KGH—M. R. T. Co., Hillsboro, Oreg.  
WIG—M. R. T. Co., Sayville, L. I., N.Y.  
7765 PDM—Kootwijk, Netherlands.  
7770 FTF—Sainte Assise, near Paris, France.  
7775 ORC—Ruyssede, Bruxelles, Belgium.  
7775 WMU—So. Rdo. Corp., Linden, N. J.  
7780 WTF—Firestone, Akron, Ohio.  
PREG—Garca, Brazil.  
PSZ—Sepetiba, Rio de Janeiro, Brazil.  
7790 PRS3—Saigon, Fr. Indo China.  
FDV—Kootwijk, Guldere, Netherlands.  
7790 YNA—T. R. T. Co., Managua, Nicaragua.  
7792 FIT—Tulear, Madagascar.  
FZO—Hanoi, Fr. Indo-China.  
7797 HBP—Information Section, League of Nations, Geneva, Switzerland.  
7800 YNC—T. R. T. Co., Cabo Gracias, Nicaragua.  
RKNA—Kharkov, U.S.S.R.  
7805 KZGF—Philippine Long Distance Telephone Co., Manila, P. I.  
7810 VFZ—Camp Borden, Ont., Canada.  
7812 DFT—Nauen, Germany.  
7820 OCJ—All America Cables, Inc., Lima, Peru.  
JNH—Nagoya, Japan.  
JNI—Nagoya, Japan.  
OCO—All America Cables Inc., Valverde, Lima, Peru.  
7825 SUY—Abu Zabal, Egypt.  
7827 HIR—Santo Domingo, Dominican Rep.  
7830 PGA—Kootwijk, Netherlands.  
KZGG—Philippine Long Distance Telephone Co., Cebu (Cebu), P. I.  
7835 PGA—Kootwijk, Netherlands.  
LCN—Jeløy, Oslo, Norway.  
7835 WJO—Hicksville, L. I., N. Y.  
7840 PGA—Kootwijk, Netherlands.  
7850 WJS—Hicksville, L. I., N. Y.  
7851 SUX—Abu Zabal, Egypt.  
7853 SUX—Abu Zabal, Egypt.  
7855 KZGH—Philippine Long Distance Telephone Co., Iloilo (Iloilo), P. I.  
7860 SUX—Abu Zabal, Egypt.  
7867 SUX—Abu Zabal, Egypt.  
7869 SUX—Abu Zabal, Egypt.  
7870 PME—Malabar, Java.  
PRFK—Rio de Janeiro, Brazil.  
7872.5 TGU—T. R. T. Co., Puerto Barrios, Guatemala.  
7880 DIA—Koenigs Wusterhausen, Germany.  
7880 EAM—Aranjuez, Spain.  
JVR—Kemikawa-cho, Tokyo, Japan.  
KTY—M. R. T. Co., Manila, P. I.  
7885 FTY—Sainte Assise, near Paris, France.  
HBD—Berne, Switzerland.  
7885 FTY—Sainte Assise, France.  
7890 CFA, CGA, CJA—Drummondville, P. Q., Canada.  
7892 TIP—Puntarenas, Costa Rica.  
7893 FRG1—Luangprabang, Fr. Indo China.  
7894 FRW—Sam Neua, Fr. Indo China.  
7894 FIO—Majunga, Mozambique Channel.  
TIG—General, Costa Rica.  
XAR—Navioja, Mexico.  
7894.74 FGA—Dakar, French West Africa.  
FGF—Cotonou, Dahomey, Africa.  
7895 PRRV—Boa Vista, Para, Brazil.  
PRRM—Belem, Para, Brazil.  
RMGI—Khabarovsk, U.S.S.R.  
7898 TID—Liberia, Costa Rica.  
7900 TIA—San Jose, Costa Rica.  
7900 HBC—Berne, Switzerland.  
7900 HBD—Berne, Switzerland.  
7900 JPS—Sapporo, Japan.  
7900 XNB—Canton, China.  
7902 TIF—Buenos Aires, Costa Rica.

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- 7905 OSK—Kitega, Belgian Congo.  
7910 PQI—Boa Vista do Rio Branco, Brazil.  
REJV—Semipalatinsk, U.S.S.R.  
VER—Ottawa, Ont., Canada.  
7910 VFZ—Camp Borden, Ont., Canada.  
7917.5 DFP—Nauen, Germany.  
7920 GCP—Rugby, England.  
JAH—Tokyo, Japan.  
RCKJ—Lenkoran, U.S.S.R.  
7925 HBD—Berne, Switzerland.  
7935 PQJ—Benjamin Constant, Brazil.  
KZGF—Philippine Long Distance Telephone Co., Manila, P. I.  
PSL—Companhia Radio Internacional do Brasil, Marapicu, Rio de Janeiro.  
7936 FRK3—Phu-Lien, French Indo-China.  
7940 GOM—Dorchester, England.  
7960 GHM—Aldershot, Hampshire, England.  
7960 VIW—Wyndham, Western Australia.  
7965 OQP—Astrida, Belgian Congo.  
7968 HSP—Bangkok, Siam.  
7970 PKC—Pontianak, Borneo, D. E. I.  
XGL—Shanghai, China.  
7980 PQB—Belem, Para, Brazil.  
VLZ—Sydney, NSW, Australia.  
VIR—Rockhampton, Qld., Australia.  
7985 FXC—Beyrouth, Rep. of Lebanon, Asia.  
GYU3—Gibraltar, Mediterranean.  
7990 OQM—Lusambo, Belgian Congo.  
7990 VIN—Lord Howe Island, Australia.  
8000 FIM—Mayotta, Comoro Islands.  
8000 FZN—Noumea, New Caledonia.  
HSI—Singora, Siam.  
HBC—Berne, Switzerland.  
JKV—Kanazawa, Japan.  
PMD—Malabar, Java, D.E.I.  
VIC—Cooktown, Qld., Australia.  
VIN—Lord Howe Island, Australia.  
YLN—Liepaja, Latvia.  
8005 GLK—Dorchester, England.  
8015 ZDZ—Belize, British Honduras.  
8020 HSI—Bangkok, Siam.  
8020 EAX—Barcelona, Spain.  
VII—Thursday Island, Qld., Australia.  
VPD—Suva, Viti Levu, Fiji Islands.  
XIA—Hankow, China.  
8030 NSS—U. S. Naval Radio, Annapolis, Md.  
XIG—Swatow, China.  
—U. S. Govt.  
8034 CNR—Rabat, Morocco.  
8035 OQB—Bumba, Belgian Congo.  
—U. S. Govt.  
8040 JAQ—Tokyo, Japan.  
8050 RCNV—Smolensk, U.S.S.R.  
8055 OQWI—Banningville, Belgian Congo.  
8060 BU7—(W4NF) State Arsenal, St. Augustine, Fla.  
CS7—(W4GS) 124th Infantry Armory, Sanford, Fla.  
8060 VIO—Broome, Western Australia.  
—U. S. Govt.  
8075 FYD—Pontoise, near Paris, France.  
KNN, KNW, KTA, WML (See 6815).  
TYB2—Pontoise, near Paris, France.  
WEZ—R.C.A. Comm. Inc., Rocky Point, N. Y.  
8085 FZE—Djibouti, Somali Coast, Africa.  
8085 QOS—Stanleyville, Belgian Congo.  
8090 POZ—Beraoe, Borneo, D. E. I.  
8090 PRNB—Bello Horizonte, Brazil.  
8090 VIN—Geraldton, Western Australia.  
—U. S. Govt.  
8095 OQB—Bumba, Belgian Congo.  
VLK—Sydney, NSW, Australia.  
8100 TIC—Cuesta, Costa Rica.  
8100 KUY—Bear Creek, Alaska.  
VIE—Esperance, Western Australia.  
WJD—Intl. News Service, N. Y. City.  
8108 FGB—Port Etienne, Mauritania, Fr. W. Africa.  
FGEI—Abidjan, Ivory Coast, Africa.  
FIII—Meiganga, Cameroons, Africa.  
8108 FGW—Gao, Fr. W. Africa.  
FGZ—St. Louis du Senegal, Fr. W. Af.  
FIF—Ngaundere, Cameroons, Africa.  
FIU7—Tananarive, Madagascar.  
FZO—Hanoi, Fr. Indo-China.  
8108 FOYO—S. S. "Jehanne d'Arc," France.  
8108.19 FGC—Conakry, French Guinea, Africa.  
8110 XOF—Chefoo, China.  
REL—Bertys, U.S.S.R.  
8115 VVC—Calcutta, India.  
8120 JHL—Hiroshima, Japan.  
—U. S. Govt.  
KTP—R.C.A. Comm. Inc., Manila, P. I.  
8125 PLW—Malabar, Java, D. E. I.  
8130 OSF—Panu, Belgian Congo.  
8135 —U. S. Govt.  
YIG—Baghdad, Iraq, Asia.  
8140 JRX—Yaruto, Marshall Islands.  
—U. S. Govt.  
8145 FZE—Djibouti, Somali Coast, Africa.  
VTO—Mingaladon, Rangoon, India.  
VVR—Mingaladon, Rangoon, India.  
8145 PRNK—Barra do Pirahy, Brazil.  
8150 GIU—Dollis Hill, London, England.  
8150 NAA—U. S. Naval Radio, Arlington, Va.  
8150 VIU—Kieta, New Guinea.  
VIV—Madang, New Guinea.  
VJV—Manus, New Guinea.  
VIW—Aitape, New Guinea.  
VIY—Kavieng, New Guinea.  
8152 OCZ—El Progreso, Lima, Peru.  
8155 PGB—Kootwijk, Netherlands.  
8160 OSE—Kanda Kanda, Belgian Congo.  
8160 —U. S. Govt.  
8165 PROL—Bello Horizonte, Brazil.  
JYB—Tokyo, Japan.  
8165 VPQ—Mombasa Radio, Kenya, E. Africa.  
8170 RW50—Moscow, U.S.S.R.  
8175 PDO—Kootwijk, Netherlands.  
8180 WYO—U. S. Army, Hansley Field, Texas.  
PDO—Kootwijk, Netherlands.  
8185 FZE—Djibouti, Somali Coast, Africa.  
PSK—Companhia Radio Internacional do Brasil, Marapicu, Rio de Janeiro.  
8186 PRA3—Radio Club de Brazil, Rio de Janeiro.  
8190 CKN—Esquimalt, B. C., Canada.  
8195 OOL—Leopoldville, Belgian Congo.  
8200 FYB—Pontoise, near Paris, France.  
8200 FIL—Diego Suarez, Madagascar.  
LPG—General Pacheco, Argentina.  
XGB—Shanghai, China.  
XNK—Nanking, China.  
8205 EDR2—Pozuelo del Rey, Madrid, Spain.  
8210 FFS—S. Maries-de-la-Mer, France.  
GKT—Portishead, Bristol, England.  
GLRX—S.S. "Mauretania," England.  
GLR—S.S. "Aquitania," England.  
8210 GCVB—S. S. "Narkunda," England.  
GLYK—S. S. "Adventress," England.  
8210 GBRQ—S.S. "Franconia," England.  
GCTZ—S.S. "Naldera," England.  
GLQS—S.S. "Asturias," England.  
GLRY—S.S. "Caronia," England.  
GLVX—S.S. "Viceroy of India," England.  
GSRZ—S.S. "Staffordshire," England.  
—U. S. Govt.  
8210 GBZW—S. S. "Berengaria," Cunard S. S. Co., Liverpool, Eng.  
GLKY—S. S. "Carinthia," England.  
GFSB—S. S. "Empress of Australia," Eng.  
8211 VPNI—S.S. "Coronda," Falkland Islands.  
8217 FRV1—Vientiane, Fr. Indo China.  
8220 VPB—Colombo, Ceylon.  
ZSV—Walvis Bay, S. Africa.  
8220 GCDP—S.S. "Cathay," England.  
GDVZ—S.S. "Moldavia," England.  
GFBC—S.S. "Mooltan," England.  
GFBD—S.S. "Maloja," England.  
GFBJ—S.S. "Mongolia," England.  
GFBL—S.S. "Ballarat," England.  
GFBN—S.S. "Baradine," England.  
GFBP—S.S. "Barrabool," England.  
GFBQ—S.S. "Bendigo," England.  
GFDB—S.S. "British Colonel," England.  
GFDI—S.S. "Comorin," England.  
GFVS—S.S. "British Gunner," England.  
GFVQ—S.S. "British Trader," England.  
GJLB—S.S. "British General," England.  
GKQX—S.S. "Ranpara," England.  
GKT—Portishead, Bristol, England.  
GLBR—S.S. "Monowai," England.  
GLKN—S.S. "Chitral," England.  
GLKW—S.S. "Ranchi," England.  
GLRW—S.S. "Rawalpindi," England.  
GLWV—S.S. "Rajputana," England.  
GLXD—S.S. "Antung," England.  
GLZD—S.S. "British Exhibitor," England.  
GNRC—S.S. "Orford," England.  
GPLY—S.S. "Achimota," England.  
GRNX—S.S. "Carthage," England.  
GRPZ—S.S. "Strathnaver," England.  
ZLW—Wellington, New Zealand.  
8220 GFSB—S. S. "Empress of Australia," Eng.  
GLSI—S. S. "Adriatic," England.  
GLXZ—S. S. "Northland," England.  
GMLD—S. S. "Empress of France," Eng.  
GSZN—S. S. "Rangitata," England.  
SEON—S. S. "Sveadrott," Sweden.  
SERN—S. S. "Ring," Sweden.  
SETN—S. S. "Rane," Sweden.  
SEWN—S. S. "Vigor," Sweden.  
SHFN—S. S. "Vasaholm," Sweden.  
VPNJ—S. S. "Saragossa," Falkland Ids.  
VPSL—S. S. "Salvestria," Falkland Ids.  
VPSM—S. S. "Sourabaya," Falkland Ids.  
ZMGK—S. S. "Southern Princess," New Zealand.  
GMSB—S. S. "Apapa," England.  
GSRI—S. S. "Arctic Prince," England.  
GBZL—S. S. "Arctic Queen," England.  
SHTN—S. S. "Belgia," Sweden.  
SHON—S. S. "Blaland," Sweden.  
SHRN—S. S. "Gunnaren," Sweden.  
GLZD—S. S. "Leicestershire," Eng.  
SMLA—S. S. "Parrakoola," Sweden.  
SFZA—S. S. "Margaret Johnson," Sweden.  
VPSN—S. S. "Discovery II," Falkland Ids.  
SGLN—S. S. "Lagaholm," Sweden.  
GBXM—S.S. "Orontes," England.  
GCDW—S.S. "Rhodora," England.  
GCZL—S.S. "Arundel Castle," England.  
GDKB—S.S. "Dorsetshire," England.  
GDLJ—S.S. "Homeric," England.  
GDZP—S.S. "Somersetshire," England.  
GFVV—S.S. "Majestic," England.  
GLXV—S.S. "Cheshire," England.  
GLZF—S.S. "Oxfordshire," England.  
GJZT—S.S. "Southern King," England.  
GJSL—S.S. "Carnarvon Castle," England.  
GLOR—S.S. "Alcantara," England.  
GLSQ—S.S. "Olympic," England.  
GLYZ—S.S. "Gloucestershire," England.  
GMTN—S.S. "Shropshire," England.  
GNJT—S.S. "Laurentic," England.  
GNTS—S.S. "Duchess of Athol," Eng.  
GNTV—S.S. "Duchess of Bedford," Eng.  
GSVR—S.S. "Duchess of Richmond," England.  
GSYN—S.S. "Duchess of York," Eng.  
SEIN—S.S. "Shantung," Sweden.  
SENT—S.S. "Suecia," Sweden.  
SEON—S.S. "Hallaren," Sweden.  
8225 RRD—Moscow, U.S.S.R.  
8230 DAN—Norddeich, Germany.  
DANAB—Dornier Seaplane DO-X, Friedrichshafen, Germany.  
DAS—Ruegen, Germany.  
DENNE—Dirigible "Graf Zeppelin," Friedrichshafen, Germany.  
8230 EAK—San Lorenzo, Canary Islands.  
8230 KUP—San Francisco, Calif.  
8235 OOC—Coquilhatville, Belgian Congo.  
8240 SAB—Goteborg, Sweden.  
8240 see 8280.  
8250 TIR—Cartago, Costa Rica.  
RKNK—Kharkov, U.S.S.R.  
8250 see 8280.  
8260 see 8280.  
8270 OQD—Kindu, Belgian Congo.  
—U. S. Govt.  
8280 OYP—Thorshavn, Faroe, Islands.  
WRL—R. M. C. A., Duluth, Minn.  
8290 WBSN—S. S. "Leviathan."  
WMCE—S. S. "Malolo."  
8290 KFLF—Yacht "Ripple," Box 188, Bradenton, Fla.  
RIKW—Omsk, U.S.S.R.  
WIDJ—Yacht "Temptress."  
YNA—T.R.T. Co., Managua, Nicaragua.  
8300 CLH—Holguin, Oriente, Cuba.  
YNA—T. R. T. Co., Managua, Nicaragua.  
8300 GDZV—S.S. "Makura," England.  
HBC—Berne, Switzerland.  
8305 OQE—Costermansville, Belgian Congo.  
8310 OXZ—Skamlebaek, Denmark.  
PPR—Rio de Janeiro, Brazil.  
8310 —U. S. Govt.  
8320 YNC—T. R. T. Co., Cabo Gracias, Nicaragua.  
8320 JFYC—S. S. "Tatsuta Maru," Japan.  
JFZC—S. S. "Chichibu Maru," Japan.  
8328 PKA—Sabang, Weh Island, D. E. I.  
8328 GFMT—S.S. "Polar Chief," England.  
GFVB—S.S. "Anglo-Norse," England.  
8330 VAA—Ottawa, Ont., Canada.  
8330 DAN—Norddeich, Germany.  
13000 FYD—Pontoise, near Paris, France.  
GDZV—S.S. "Makura," England.  
KNN, KNW, KTA, WML (See 6815).  
KWI—M. R. T. Co., Palo Alto, Calif.  
TYC—Pontoise, near Paris, France.  
13015 WJH—M. R. T. Co., Sayville, L. I., N.Y.  
KWZ—M.R.T. Co., Palo Alto, Calif.  
13020 VVM—Madras Fort, India.  
JZE—Tokyo, Japan.  
13025 OQQ—Libenge, Belgian Congo.  
13030 KNN, KNW, KTA, WML (See 6815).  
WJJ—M. R. T. Co., Sayville, L. I., N. Y.  
WMCE—M. R. T. Co., St. John, Ind.  
13040 GFN—Air Ministry, London, England.  
13040 PKA—Sabang, Weh Island, D. E. I.  
13043 FNLI—S. S. "L'Atlantique," France.  
FPBI—Papete-Mahina, Tahiti.  
13043 GCZL—S.S. "Arundel Castle," England.  
GJSL—S.S. "Carnarvon Castle," England.  
13045 FHM—Lambarene, Fr. Equatorial Africa.  
13050 GHN—Aldershot, Hampshire, England.  
13060 KFS—M.R.T. Co., Palo Alto, Calif.  
13075 VPD—Suva, Viti Levu, Fiji Islands.  
13080 JYD—Tokyo, Japan.  
13085 OQI—Lisala, Belgian Congo.  
13095 —U. S. Govt.  
13095 WVL—Quarry Heights, C. Z.  
13100 DAN—Norddeich, Germany.  
13100 OCZ—El Progreso, Lima, Peru.  
13100 IRJ—Roma, Italy.  
13110 —U. S. Govt.  
13125 —U. S. Govt.  
13140 —U. S. Govt.  
CWH—Cerrito, Montevideo, Uruguay.  
13150 OSG—Luluabourg, Belgian Congo.  
13155 —U. S. Govt.  
13158 GLBR—S. S. "Monowai," England.  
13160 PCH—Scheveningen, Netherlands.  
13180 DGG—Nauen, Germany.  
13205 ONA—Banana, Belgian Congo.  
13210 GDJL—S. S. "Homeric," England.  
GFVV—S. S. "Majestic," England.  
GLSQ—S. S. "Olympic," England.  
PKV—Makassar, Celebes, D.E.I.  
13210 WBSN—S.S. "Leviathan."  
13225 DHB—Nauen, Germany.  
13230 GYG—Dockyard, Bermuda.  
13240 KDTZ—S. S. "Southern Cross."  
KBJ—R.C.A. Comm. Inc., Manila, P. I.  
WMCE—S. S. "Malolo."  
13245 OSV—Stanleyville, Belgian Congo.  
13255 PUB—Blumenau, S. Catharina, Brazil.  
13260 IRR—Roma-Torrenova, Italy.  
13270 FXB—Beyrouth, Syria.  
GKRZ—S. S. "Arwyco," England.  
KTE—M. R. T. Co., Manila, P. I.  
13285 CJA7—Canadian Marconi Co., Drummondville, P. Q., Canada.  
—U. S. Govt.  
13290 —U. S. Govt.  
13305 —U. S. Govt.  
13308 —U. S. Govt.  
NPO—U. S. Naval Radio, Cavite, P. I.  
13308 OQY—Niagara, Belgian Congo.  
13315 GDJL—S. S. "Homeric," England.  
13320 GFVV—S. S. "Majestic," England.  
GLSQ—S. S. "Olympic," England.  
—U. S. Govt.  
13320 PUE—Barra, Bahia, Brazil.  
13330 CKZ—Montreal, P. Q., Canada.  
13330 FOTI—S. S. "Lutetia," France.  
13330 PKE—Amboina, Dutch East Indies.  
13335 FZO2—Hanoi, Fr. Indo China.  
WYO—U. S. Army, Hansley Field, Texas.  
—U. S. Govt.  
13335 VLJ—Sydney, NSW, Australia.  
13340 VLZ—Sydney, NSW, Australia.  
13340 VIP—Perth, Western Australia.  
13350 FTW—Wallis Island, New Caledonia.  
13360 OQF—Port Francoui, Belgian Congo.  
VAA—Ottawa, Ont., Canada.  
13375 DGI—Nauen, Germany.  
13375 VFA—Halifax, Nova Scotia, Canada.  
13385 VFA—Pontoise, near Paris, France.  
13390 WND—A. T. & T. Co., Lawrenceville, N. J.  
WMA—A.T.&T. Co., Lawrenceville, N. J.  
13400 JAF—Tokyo, Japan.  
13410 YID—Baghdad, Iraq, Asia.

# WILL YOU WIN THIS TRANSMITTER

Phone and CW KIT, FULLY  
MOUNTED...*Ready-to-Wire*...

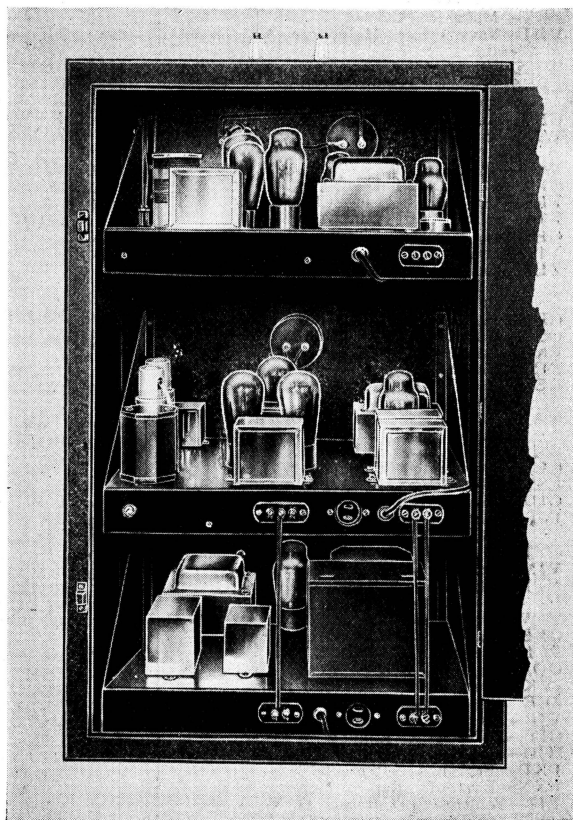
Variactor Carrier Control modulation is now being used by many amateurs in their own phone rigs. These new Ready to Wire transmitter kits employ the Variactor system exclusively. A 50 watt kit in cabinet (back view illustrated) will be given away free to the amateur who suggests a name that will best describe this series of transmitter kits using Variactor Carrier Control.

Contest closes July 1st, 1936. Judges are: Robert Kruse, Frank Jones and L. M. Cockaday, three nationally known radio editors. Mail suggested names direct to UTC.

These new units represent the last word in transmitter KIT design. Nothing has been overlooked to obtain maximum performance and efficiency, and yet the kits are PRICED WITHIN REACH OF EVERY AMATEUR.

A list of the manufacturers whose parts are used in these assemblies reads like the blue book of Ham Radio: *UTC, Cardwell, Cornell Dubilier, Hammarlund, Isolantite, Aerovox, IRC, Triplett, Yaxley, Johnson, Electrode, etc. . . . Tubes by RCA.*

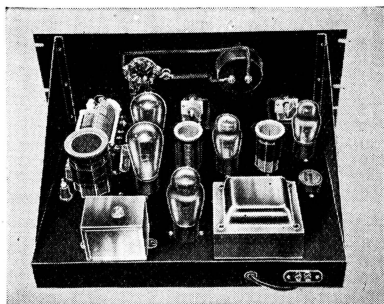
The units are furnished completely assembled and mounted on black enamel chassis with front rack panels and etched silvered overall plates. All you have to do is wire them . . . even the wire is furnished. Full working prints accompany each assembly.



REAR VIEW SHOWING CONSTRUCTION AND PARTS

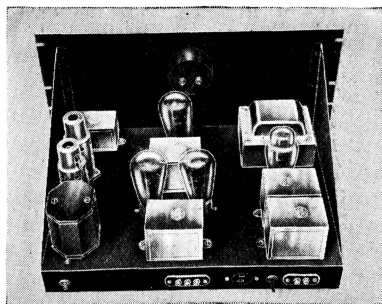
Begin with a 50 watt CW unit and later use it to excite a 750 watt CW Class B Linear Stage or start with the 50 watt VARIATOR controlled carrier phone rig and use it later to excite a 500 watt Phone Class B Linear Stage. Units may be purchased separately and are complete in themselves.

*Full Scale Working Print Brochure covering all constructional plans for the 50 watt, 500 watt and 750 watt units may be purchased from your distributor or direct for 25c. Free when purchased with each sectional unit.*



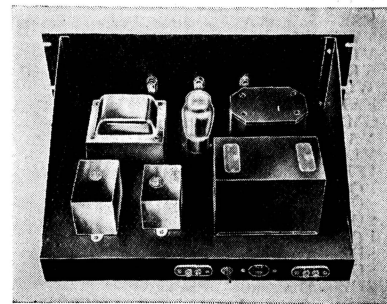
SECTION ONE

50 watt RF unit. Consists of crystal-controlled pentode oscillator, pentode buffer-doubler, push pull final amplifier, and choke input mercury vapor rectifier system having a regulation better than 5%, readings on 5 circuits instantaneously through one meter. Used by itself this unit is a highly efficient 50 watt CW transmitter.



SECTION TWO

Consists of a high gain speech amplifier and Class B modulating stage. It has an output of 30 watts, and when used to modulate the RF amplifier at 100% modulation the distortion level is less than 5%. This amplifier is designed for use with high level crystal microphones and will operate with any of the carbon type.



SECTION THREE

VARIATOR Controlled Carrier Unit. Has a separate power supply for 50 watt class C stage and Variactor units for carrier control. Instantaneous switch-over provided from carrier control to constant carrier. When used with 500 watt class B Linear stage DX coverage is increased, efficiency of the Linear stage is easily doubled. Reduces interference between stations tremendously.

## UNITED TRANSFORMER CORP.

72 SPRING STREET

NEW YORK, N. Y.

EXPORT DIVISION - 15 LAIGHT STREET, NEW YORK, N. Y.

*Tell 'Em You Saw It in the Radio Amateur Call Book Magazine*



13415 OQR—Usumbura, Belgian Congo.  
GCJ—Rugby, England.  
13420 WHR—R. C. A., Rocky Point, N. Y.  
13435 WKD—R. C. A. Comm. Inc., Rocky Point, N. Y.  
13440 PKV—Makassar, Celebes, D.E.I.  
13450 VHJ—Navy Office, Melbourne, Vic., Australia.  
WEX—R. C. A., Rocky Point, N. Y.  
13460 LPR6—General Pacheco, Buenos Aires, Argentina.  
13465 GBQ—Rugby, England.  
13465 WKC—R. C. A. Comm. Inc., Rocky Point, N. Y.  
13480 WAJ—R. C. A., Rocky Point, N. Y.  
13490 GFX—R.A.F., Ismailia, Egypt.  
13492 FRS1—Saigon, Fr. Indo China.  
13495 KJG—M.R.T. Co., Palo Alto, Calif.  
13500 GFJ—Air Ministry, London, England.  
VIT—Townsville, Qld., Australia.  
ZLF—Gen. Hq. N. Z. Military Forces, Wellington, New Zealand.  
13505 GFW—R.A.F., Ambala, India.  
13510 GFV—R.A.F., Baghdad, Iraq, Asia.  
OSB—Kikwit, Belgian Congo.  
13510 PKG—Bandjermasin, Borneo, D.E.I.  
TIM—Limon, Costa Rica.  
13515 GEO—Royal Air Force, Singapore, Str. Setts.  
13520 VAJ—Digby Island, Prince Rupert, B. C., Canada.  
13525 GMS—Ongar, Essex, England.  
13540 GLH—Dorchester, England.  
13550 LSS—Olivos, Bs. As., Argentina.  
13555 GID—Oxford, England.  
13560 JVI—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
13570 GYJ—Horsea, Portsmouth, England.  
VJN—Lord Howe Island, Australia.  
13575 NPM—U. S. Naval Radio Stn., Pearl Harbor (Wailupe), T. H.  
13580 VIV—Wyndham, Western Australia.  
13585 GBB—Rugby, England.  
13600 PLL—Malabar, Java, D. E. I.  
13605 OQA—Kigoma, Belgian Congo.  
13610 JYK—Kemikawa-cho, Tokyo, Japan.  
13615 ZCE—Cape D'Aguiar, Hong Kong, Asia.  
13620 VJB—Maria Island, Tas., Australia.  
13630 GIT—Dollis Hill, London, England.  
13630 HJO—Bogota, Colombia, S. A.  
13635 FXD—Beyrouth, Syria.  
13635 FXN—Beyrouth, Rep. of Lebanon, Asia.  
13636 PJZ—Willemstad, Curacao, D. W. I.  
13636.3 PJZ—Willemstad, Curacao, D.W.I.  
13636.36 FGF—Cotonou, Dahomey, Africa.  
FGJ1—Bamako, French Sudan, Africa.  
13640 VIR—Rockhampton, Qld., Australia.  
13645 KJD—M. R. T. Co., Palo Alto, Calif.  
13650 PKC—Pontianak, Borneo, D. E. I.  
13660 GMM—Dorchester, England.  
13675 GIM—Oxford, England.  
13675 PCU—'sGravenhage, Netherlands.  
VAA—Ottawa, Ont., Canada.  
VAP—Port Churchill, Hudson Bay, Man., Canada.  
13685 HAS2—Szekesfehervar, Hungary.  
13690 KKZ—R.C.A., Bolinas, Calif.  
13698.6 PJZ—Willemstad, Curacao, D.W.I.  
13700 VAK—Gonzales Hill, B. C., Canada.  
VIC—Cooktown, Qld., Australia.  
13705 WGT—R.C.A. Comm. Inc., San Juan, P. R.  
13720 KLL—R.C.A., Bolinas, Calif.  
13730 GMO—Ongar, Essex, England.  
13750 KWT—M. R. T. Co., Palo Alto, Calif.  
13765 EAX—Barcelona, Spain.  
KNN, KNW, KTA, WML (see 6815).  
13770 FSE—Sainte Assise, near Paris, France.  
13770 VWK—Karachi, India.  
13770 VII—Thursday Island, Qld., Australia.  
13780 KKW—R. C. A. Comm. Inc., Bolinas, Cal.  
13780 WGT—R.C.A., San Juan, P. R.  
13790 EAK—San Lorenzo, Gran Canaria, Spain.  
13795 GMZ—Dorchester, England.  
13800 VAI—Point Gray, B. C., Canada.  
13800 VLK—Sydney, NSW, Australia.  
JFR—Taihoku, Taiwan. (Formosa).  
13805 POA—Bocca do Acre, Brazil.  
13811 SUZ—Abu Zabal, Egypt.  
13813 SUZ—Abu Zabal, Egypt.  
13820 POB—Belem, Para, Brazil.  
SUZ—Abu Zabal, Egypt.  
13827 SUZ—Abou Zabal, Cairo, Egypt.  
13829 SUZ—Abu Zabal, Egypt.  
13840 WPE—R. C. A., Rocky Point, N. Y.  
13855 EAM—Aranjuez, Spain.  
13855 WQU—R. C. A. Comm. Inc., Rocky Point, N. Y.  
13870 WAD—R. C. A. Comm., Inc., Rocky Point, N. Y.  
WIY—R.C.A. Comm. Inc., New Brunswick, N. J.  
KKW—R.C.A., Bolinas, Calif.  
13880 VJZ—Rabaul, New Guinea.  
JNB—Nagoya, Japan.  
RELO—Boukhta Bertys, U.S.S.R.  
13885 EAK—San Lorenzo, Canary Islands.  
WQT—R.C.A. Comm. Inc., Rocky Point, N. Y.  
13890 KTF—M.R.T. Co., Midway Island, T. H.  
LPG9—General Pacheco, Buenos Aires, Argentina.  
13895 TFL—Reykjavik, Iceland.  
13900 GFN2—Air Ministry, London, England.  
WAC—R. C. A. Comm. Inc., New Brunswick, N. J.  
WQP—R.C.A. Comm. Inc., Rocky Point, N. Y.  
XGP—Shanghai, China.  
ZLF—Gen. Hq. N. Z. Military Forces, Wellington, New Zealand.  
13915 WQS—R.C.A. Comm. Inc., New Brunswick, N. J.  
13920 CKV—Vancouver, B. C., Canada.

13920 CKW—Winnipeg, Man., Canada.  
13930 WIK—R.C.A. Comm. Inc., Rocky Point, N. Y.  
13940 SUC—Abu Zabal, Egypt.  
13940 JNJ—Nagoya, Japan.  
13940 VIO—Broome, Western Australia.  
13950 PKB—Padang, Sumatra, D.E.I.  
13950 PKP—Medan, Sumatra, D. E. I.  
13953 COJ—Macau.  
FRS2—Saigon, Fr. Indo China.  
13960 KNN, KNW, KTA, WML (see 6815).  
KNW—M.R.T. Co., Palo Alto, Calif.  
KIWA—M. R. T. Co., Des Moines, Wash.  
WJV—ditto—Sayville, L. I., N. Y.  
13960 VIB—Brisbane, Qld., Australia.  
13980 LCO—Jeloy, Oslo, Norway.  
13990 GBA—Rugby, England.  
WDJ—Crosley Radio Corp., Harrison, Ohio.

#### 14000—(21.43 m.)—Limit of amateur band.

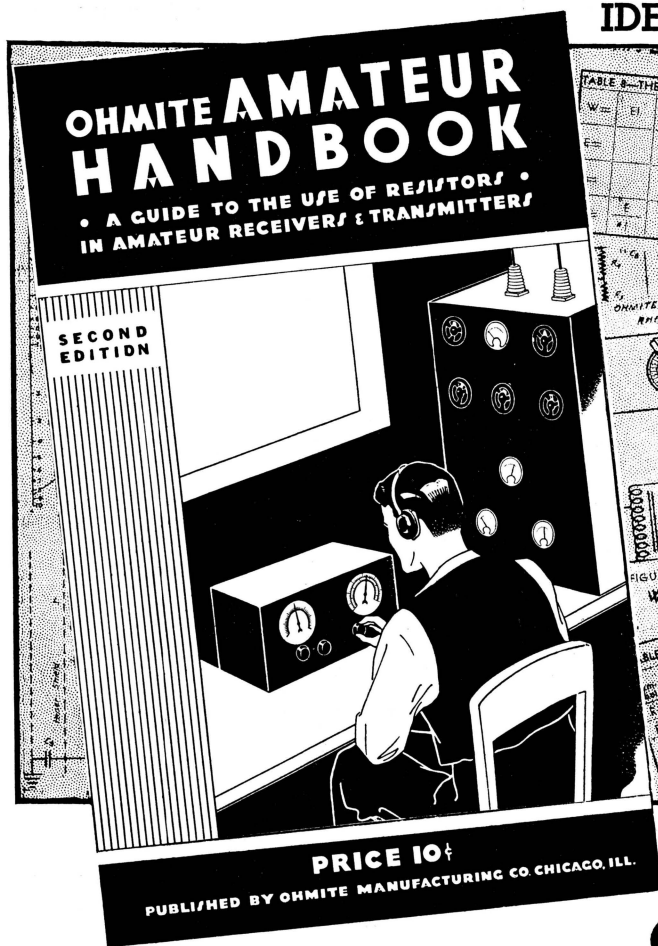
14092 W9FO—Radio Amateur Call Book.  
14356 W9FO—Radio Amateur Call Book.

#### 14400—(20.83 m.)—Limit of amateur band.

14410 DIP—Koenigs Wusterhausen, Germany.  
POI—Bos Vista do Rio Branco, Brazil.  
14415 GMR—Ongar, Essex, England.  
14420 POJ—Benjamin Constant, Brazil.  
YNU—All America Cables Inc., Managua, Nicaragua.  
14425 VPD—Suva, Viti Levu, Fiji.  
14440 VPD—Suva, Viti Levu, Fiji Islands.  
14440 GBW—Rugby, England.  
14440 TIR—Cartago, Costa Rica.  
14450 RPK—Moscow, U.S.S.R.  
14470 WME—A.T. & T. Co., Lawrenceville, N.J.  
14478 HSJ—Bangkok, Siam.  
14480 PLK—Malabar, Java, D.E.I.  
14485 HPF—T.R.T. Co., Panama, Rep. of Panama.  
14500 RRRF—Moscow, U.S.S.R.  
LSM2—Hurlingham, Bs. As., Argentina.  
PCT—Kootwijk, Netherlands.  
14510 RRRF—Moscow, U.S.S.R.  
14515 YNB—T.R.T. Co., Bluefields, Nicaragua.  
14530 LSN—Hurlingham, Bs. As., Argentina.  
14535 HBJ—Prangins, Switzerland.  
14545 XDA—Radio Central, Chapultepec, D. F., Mexico.  
14545 YNC—T.R.T. Co., Cabo Gracias, Nicaragua.  
RTZ—Irkoutsik, U.S.S.R.  
14550 PKA—Sabang, Weh Island, D.E.I.  
RTZ—Irkoutsik, U.S.S.R.  
14560 RTZ—Irkoutsik, U.S.S.R.  
14565 PCR—Kootwijk, Netherlands.  
14570 RTZ—Irkoutsik, U.S.S.R.  
14575 TGU—T. R. T. Co., Puerto Barrios, Guatemala.  
14590 WMN—A.T. & T. Co., Lawrenceville, N. J.  
14600 JVH—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
14605 DGZ—Nauen, Germany.  
14620 EDM—Pozuelo del Rey, Madrid, Spain.  
EDN—Pozuelo del Rey, Madrid, Spain.  
EDR2—Pozuelo del Rey, Madrid, Spain.  
EHY—Pozuelo del Rey, Madrid, Spain.  
14630 PLJ—Malabar, Java, D.E.I.  
14635 FYR—Lyon, France.  
REL8—Bertys, U.S.S.R.  
14640 JAR—Tokyo, Japan.  
14665 DFD—Nauen, Germany.  
14680 KNN, KNW, KTA, WML (see 6815).  
KJK—M. R. T. Co., Palo Alto, Calif.  
WIX—M. R. T. Co., Sayville, L. I., N.Y.  
14695 WKB—M. R. T. Co., Sayville, L. I., N.Y.  
14700 JAC—Tokyo, Japan.  
14710 VLZ—Sydney, NSW, Australia.  
14710 WKI—M.R.T. Co., Sayville, L. I., N. Y.  
14710 KNN, KNW, KTA, WML (see 6815).  
14725 KNN, KNW, KTA (see 6815).  
VRS—Mauritius.  
WKE—M. R. T. Co., Sayville, L. I., N.Y.  
14730 FYQ—Lyon, France.  
14740 KNN, KNW, KTA, WML (see 6815).  
KWM—M. R. T. Co., Palo Alto, Calif.  
14750 FZU—Tananarive, Madagascar.  
WML—M. R. T. Co., Sayville, L. I., N.Y.  
14755 OCK—All America Cables Inc., Lima, Peru.  
KOI—M.R.T. Co., Kailua, T. H.  
14770 KNN, KNW, KTA, WML (see 6815).  
WEB—R.C.A. Comm. Inc., Rocky Point, N. Y.  
14785 WDC—R.C.A. Comm. Inc., Rocky Point, N. Y.  
14800 WQV—R. C. A. Comm. Inc., Rocky Point, N. Y.  
14815 WQL—R.C.A. Comm. Inc., New Brunswick, N. J.  
14820 EAK—San Lorenzo, Canary Islands.  
14830 WQU—R.C.A., Rocky Point, N. Y.  
RRW—Moscow, U.S.S.R.  
14840 JAM—Tokyo, Japan.  
RRRW—Moscow, U.S.S.R.  
14860 KQG, KGR, KGS, KGX, WGA (see 7430).  
14875 EAM—Aranjuez, Spain.  
14890 KQG, KGR, KGS, KGX, WGA (see 7430).  
14900 FYB—Pontoise, near Paris, France.  
14905 EAX—Barcelona, Spain.  
14910 JVG—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
14920 VFZ—Camp Borden, Ont., Canada.  
KQH—R.C.A. Comm. Inc., Kahuku, T.H.  
14930 VIM—Melbourne, Vic., Australia.  
VIN—Geraldton, Western Australia.  
14935 PSE—Companhia Radio Internacional do Brasil, Marapicu, Rio de Janeiro.  
14940 EAK—San Lorenzo, Canary Islands.

14950 CPC—So. Rdo. Corp., Yacuiba, Bolivia, S. A.  
14965 EAK—San Lorenzo, Canary Islands.  
YNA—T.R.T. Co., Managua, Nicaragua.  
14980 KAY—R.C.A. Comm. Inc., Manila, P. I.  
14985 EFR2—Pozuelo del Rey, Madrid, Spain.  
15000 CFA—CGA—CJA—Drummondville, P. Q., Canada.  
15000 FXQ—Hanoi, Fr. Indo China.  
HBD—Berne, Switzerland.  
PCO—Kootwijk, Netherlands.  
VKS—Sydney, NSW, Australia.  
15005 HBD—Berne, Switzerland.  
15015 YNR—All America Cables, Inc., Managua, Nicaragua.  
15025 PCU—'s Gravenhage, Netherlands.  
15030 HBD—Berne, Switzerland.  
15040 WQG—R.C.A., Rocky Point, N. Y.  
RKI—Moscow, U.S.S.R.  
15055 WNC—A. T. & T. Co., Hialeah, Fla.  
15065 EAK—San Lorenzo, Canary Islands.  
15068 PLL—Malabar, Java, D.E.I.  
15070 PSD—Companhia Radio Internacional do Brasil, Marapicu, Rio de Janeiro.  
15075 DIO—Koenigs Wusterhausen, Germany.  
15090 VIA—Adelaide, South Australia.  
RKI—Moscow, U.S.S.R.  
15100 ZKR—Karotonga, Cook Islands, Oceania.  
15110 DJL—Koenigs Wusterhausen, Germany.  
15120 HVJ—Vatican City, Europe.  
15151 PZA—Paramaribo, Surinam.  
15200 DJB—Koenigs Wusterhausen, Germany.  
15210 W8XX—Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.  
15220 PCJ—Eindhoven, Netherlands.  
15243 FYA—Pontoise, near Paris, France.  
15250 W1XAL—World Wide BC. Corp., Boston, Mass.  
15252 RIM—Tachkent, U.S.S.R.  
15270 W2XE—Atlantic BC. Corp., near Wayne, N. J.  
15295 FYA—Pontoise, near Paris, France.  
15355 KWU—Trans-Pacific Comm. Co., Ltd., Dixon, Calif.  
15370 TIR—Cartago, Costa Rica.  
HAS3—Szekesfehervar, Hungary.  
15375 FZH—Bamako, Fr. W. Africa.  
15380 FZH—Bamako, Fr. W. Africa.  
VIJ—Samarai, Papua.  
VIS—Sydney, N.S.W., Australia.  
15384 FZG—Saigon, Fr. Indo China.  
15385 WDT—M. R. T. Co., Sayville, L.I., N.Y.  
15400 ZMA—Apia, Samoa.  
15415 KWO—A. T. & T. Co., Dixon, Calif.  
15430 KWE—R.C.A., Bolinas, Calif.  
15440 PVB—Borba, Brazil.  
15445 WKW—R. C. A. Comm. Inc., Rocky Point, N. Y.  
WQZ—R.C.A. Comm. Inc., San Juan, P.R.  
15460 KKR—R. C. A., Bolinas, Calif.  
VID—Darwin, Northern Australia.  
15464 PLH—Malabar, Java, D.E.I.  
15470 VMS—Sydney, NSW, Australia.  
15470 VIS—Sydney, NSW, Australia.  
15475 KKL—R. C. A. Comm. Inc., Bolinas, Calif.  
15490 KEM—R. C. A., Bolinas, Calif.  
15500 ZLW—Wellington, New Zealand.  
15530 HSG—Bangkok, Siam.  
15535 WNP—M.R.T. Co., Palo Alto, Calif.  
15550 YNA—T.R.T. Co., Managua, Nicaragua.  
15560 JVE—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
15595 DFR—Nauen, Germany.  
15620 JVF—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
15625 OCT—All America Cables Inc., Lima, Peru.  
FZO—Hanoi, Tonkin, French Indo-China.  
15655 HIR—Santo Domingo, Dominican Rep.  
15670 WJO—Hicksville, L. I., N. Y.  
WJO—Hicksville, L. I., N. Y.  
LCO—Jeloy, Oslo, Norway.  
15675 WAE—M.R.T. Co., Brentwood, L.I., N.Y.  
15700 WJS—Hicksville, L. I., N. Y.  
15720 JNE—Nagoya, Japan.  
15740 JIA—Taihoku, Taiwan. (Formosa).  
TFM—Reykjavik, Iceland.  
15760 JYT—Kemikawa-cho, Tokyo, Japan.  
WPE—R.C.A. Comm. Inc., Rocky Point, N. Y.  
15770 VIG—Port Moresby, Papua.  
15770 VIS—Sydney, NSW, Australia.  
15790 ELA—Monrovia, Liberia, Africa.  
15810 LSN—Hurlingham, Bs. As., Argentina.  
15820 CKA—Geizers Hill, N. S. C. Canada.  
VAA—Ottawa, Ont., Canada.  
VIS—Sydney, NSW, Australia.  
15840 JAJ—Oyama, Japan.  
15860 JVD—Nazaki, Ibaraki-ken, near Tokyo, Japan.  
15865 CEC—Compania Internacional, San Martin 50, Santiago, Chile.  
15880 FTK—Sainte Assise, near Paris, France.  
GZ23—Cleethorpes, England.  
15880 KOS—Los Angeles, Calif.  
15900 CRZ—Lourenco Marques, Mozambique.  
15920 GHO—Aldershot, Hampshire, England.  
15930 FVC—Pontoise, near Paris, France.  
15935 FVC—Pontoise, near Paris, France.  
15940 PTO—Rio de Janeiro, Brazil.  
15950 PLG—Malabar, Java, D.E.I.  
15970 FVC—Pontoise, near Paris, France.  
15970 WKO—R. C. A., Rocky Point, N. Y.  
RRRI—Khabarovsk, U.S.S.R.  
15985 WAZ—R.C.A. Comm. Inc., New Brunswick, N. J.  
16000 WKQ—R.C.A. Comm. Inc., Rocky Point, N. Y.  
RFAJ—Moscow, U.S.S.R.  
16000 KNN, KNW, KTA—(See 6815).  
KOY—M. R. T. Co., Kailua, T. H.  
16008 LSF—Monte Grande, Bs. As., Argentina.

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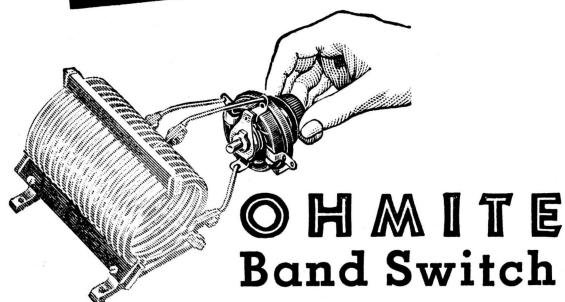
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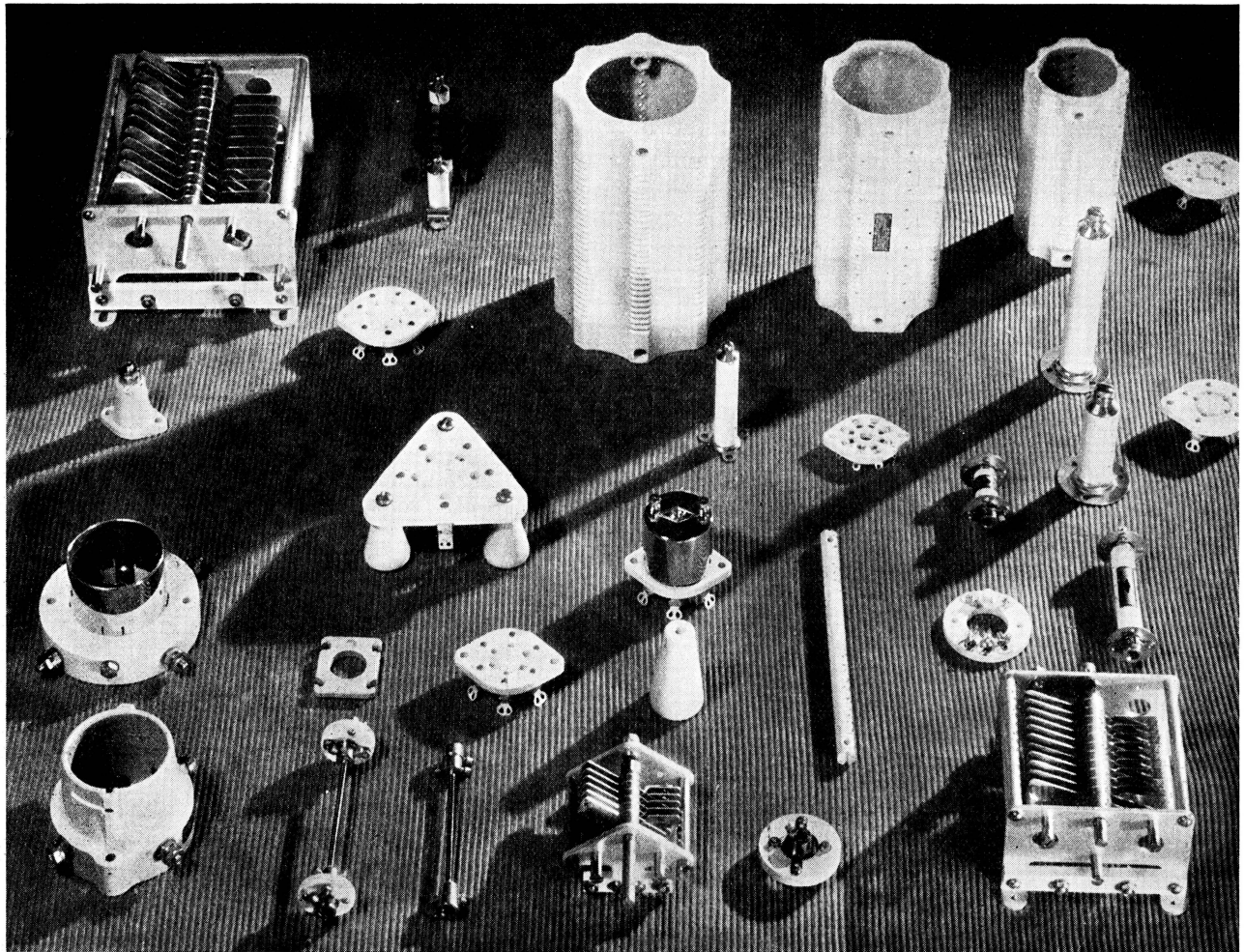
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